CONSTRUCTION NEWS

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CONTENTS.

CONSTRUCTION NEWS:
Plans and Specifications on File..... 41
List of Contracts Pending..... 41
Railways..... 41
Electric Railways..... 42
Light and Power Plants..... 42
Bridges..... 43
Buildings..... 43
Water Supply and Irrigation..... 44
Sewerage..... 45
Streets and Roads..... 45
Manufacturing Plants..... 46
Miscellaneous Contracts.....47, 48, 49
Contract Prices.....47, 48, 49
U. S. Possessions and Cuba..... 50
CIVIL SERVICE EXAMINATIONS..... 50
PROPOSALS..... 50

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(* *denotes that this work is advertised in Engineering News.*)

The following Plans (P.) and Specifications (S.) are on file and may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York.

8-10 Filling-in, **Portsmouth, N. H.(S) 7-25**
8-12 Paving, etc., Bushnell, Ill....(S) 8- 8
8-12*Dredging **Norwalk, Conn.....(S) 7-11**
8-12*Lock, etc., Brownsville, Pa...(S) 7-18
8-16*Dredging, **Jacksonville, Fla..(S.) 7-18**
8-16*Jetty work, Galveston, Tex...(S) 7-18
8-17*Sewers, etc., Asbury Park, N. J. .....(S) 8- 1
8-24 Quay wall **Bremerton, Wash..(S) 8- 1**
9-14*Valves, sluice gates, Manila, P. I. .....**(P. & S.) 8- 1**

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

8-10 Power plant, **Hickory, N. C.... 7-25**
8-12 Electric equip., New York, N. Y. 8- 1
8-13 Elec. supplies, New York, N. Y.. 8- 1
8-13 Elec. supplies, League Island, Pa. 8- 1
8-14*Pump, Bloomington, Ill..... 8- 8
8-15 Power development, Campbellford, Ont..... 8- 8
8-15 Power, New York..... 8- 8
8-15 Mantle gas lamps, N. Y..... 8- 8
8-15 Elec current, N. Y..... 8- 8
8-15 Gas plant, San Angelo, Tex..... 8- 1
8-15 Wiring, etc., New York, N. Y.... 7-25
8-19*Posts and lamps, West Point, N.Y. 8- 1
8-19 Elec. light plant, Tecumseh, Neb. 8 -8
8-26*Distributing, ptg. system, West Point, N. Y..... 8-8
8-29*Equipment, San Francisco, Cal.. 8- 1
8-31*Lighting, **Lebanon, Pa..... 7-18**
9- 3*Power plant, **Winnipeg, Man.... 6-13**

BRIDGES.

8- 8 Bridge, Zanesville, O..... 8- 1
8- 8 Bridge, **New Albany, Ind..... 7-25**
8- 9*Bridge, **Reading, Pa..... 7-25**
8-10 Bridge, etc., **Cleveland, Ohio.... 7-18**
8-10*Bridge, Washington, D. C..... 8- 1
8-12 Bridges, Talladega, Ala..... 8- 1
8-12 Bridges, **Mitchell, S. Dak..... 7-25**
8-15 Bridges, **Jackson, Ohio..... 7-18**
8-15 Bridge, Mount Gilead, O..... 8- 1
8-15 Bridge, Towanda, Pa..... 8-8
8-16 Culvert repair, Cincinnati, O..... 8- 1
8-16 Bridge, Pateros, Wash..... 8-8
8-16 Viaduct repair, Cincinnati, O..... 8-8
8-17 Bridge, Chicago, Ill..... 8-8
8-17 Bridge, Port Clinton, O..... 8-8
8-19 Bridge, Andover, O..... 8-8
8-19 Bridge, Urbana, O..... 8-8
8-19*Bridges, Council Bluffs, Iowa..... 8-8
8-19 Bridge, Redwood City, Cal..... 8-8
8-20 Bridge, Des Moines, Iowa..... 8-8
8-20 Bridge, Ft. Myer, Va..... 8-8
8-20*Bridges, Porto Rico..... 7-18
8-24 Bridge, Lebanon, O..... 8-8
9- 2 Bridge, Tarboro, N. C..... 8- 1
9- 9*Bridge, Plaquemine, La..... 8- 8
9-16 Bridge, Madera, Cal..... 8- 8

BUILDINGS.

8- 8 Laundry (Mfg. Pl.), **Wilmington,** Ohio **7-25**
8- 9*Hospital, **Spring City, Pa..... 7-25**
8-10*Reinforcing, West Point, N. Y... 8- 1
8-10 Building, Pullman, Wash..... 8- 1
8-10 Brick bldg., Marietta, O..... 8- 8
8-12 Post-office, Mason City, Iowa.... 7- 4
8-12 Heating, etc., New York, N. Y.. 8- 1
8-14*Elevators, Washington, D. C..... 8- 1
8-14 Officers' quarters, Nat'l Home, Wis..... 8- 8
8-14 Alterations, etc., New York, N.Y. 8- 8
8-15 Court-house, Bakersville, N. C.. 8- 8
8-15*Concrete station, Maynooth, Ont. 8- 8
8-15 Sanitorium, Howell, Mich..... 8- 8
8-15 Building, Philadelphia, Pa..... 8- 1
8-15*Dwelling Stonington, Conn..... 7-25
8-15 College, Albany, N. Y..... 7-25
8-19*Post-office, Alexandria, Minn.... 7-11
8-20*Post-office, Decatur, Ill..... 7-11
8-20 Court-house, Lumberton, N. C... 8- 8
8-22 Post-office, **Jackson, Miss..... 7-18**
8-23 School, Delaware, Ohio..... 8- 8
8-27 Post-office, **Trenton, N. J..... 7-25**
8-28 Armory, Portland, Ore..... 8- 8
8-31 Jail, Williamsport, Ind..... 8- 8
9- 3*Officers' quarters, Wash., D. C... 8- 8
9- 3 Cell house, Bloomfield, Ind..... 8- 8
9- 4 Post-office, Quincy, Mass..... 8- 1
9- 5 Laundry (Mfg. Pl.), **Evansville,** Ind..... 8- 1
9-11 Jail, Eureka, **Cal..... 8- 8**
9-16 Hospital, Buffalo, N. Y..... 8- 8
9-16*Hospital, Pittsburg, Pa..... 8- 8
9-19 Post-office, Muscatine, Ia..... 8- 8

WATER-WORKS.

8- 9*Filtrat'n plant, **Ft. Hancock, N.J. 7-18**
8-10 Irrigating canal, Aztec, N. Mex. 8- 8
8-10 Pipe, Ft. Bayard, N. Mex..... 8- 8
8-12 Ditch, Viborg, S. Dak..... 8- 8
8-12 Water-works, Warrensville, O.... 8- 8
8-12 Well, etc., Louisville, Ky..... 8- 8
8-12 W.-Works, Belleplaine, Minn.... 7-25
8-13 **Reservoir, Columbus, Ohio 7-18**
8-13*Meters, Halifax, N. S..... 8- 1
8-14 Supplies, New York, N. Y..... 8- 1
8-19*Plans, Sacramento, Cal..... 5-30
8-19 Tank, etc., Lombard, Ill..... 8- 8
8-20 Hydrants, Louisville, Ky..... 8- 8
8-20 W.-Works, **Russellville, Ark.... 7-25**
8-21*Dam, etc., **Springfield, Mass..... 7-25**
8-21*Strainer, **Ft. Hancock, N. J..... 7-25**
8-22*Filters, etc., **Philadelphia, Pa... 7-25**
8-23*Water pipe, Westborough, Mass. 8- 8
8-26 Pumps, etc., Ashland, O..... 8- 8
8-27 Pipe, etc., Cincinnati, O..... 8- 8
8-29*Elec. machinery, Philadelphia.. 8- 8
8-29*Sand washer pumps, Philadelphia. 8- 8
9- 3 Pipe, Victoria, B. C..... 8- 8
9- 4*Water pipe, **New Orleans, La..... 6-27**
9- 6 Conduit, Montreal, Que..... 8- 8
9- 8*Engines, etc., Louisville, Ky..... 8- 1
9-10*Ditch, **Sibley, Iowa 7-25**
9-14*Valves, sluice gates, Manila, P. I. 8- 1

SEWERS.

8- 8*Sewers, etc., Milford, Mass..... 8- 1
8- 8 Sewers, Green Bay, Wis..... 8- 1
8- 9 Sewers, Winnipeg, Man..... 8- 8
8- 9 Sewer, Elgin, Iowa..... 8- 8
8- 9 Sewer, Indianapolis, Ind..... 8- 8
8-10 Sewer, **Marshfield, Wis..... 7-25**
8-12 Sewers, Madison, S. Dak..... 8- 1
8-12 Sewers, New York, N. Y..... 8- 1
8-12 Sewers, Wilmar, Minn..... 8- 8
8-13 Sewers, Gas City, Ind..... 8- 8
8-13 Sewers, Evansville, Ind..... 8- 8
8-14 Sewer, Oakland, Cal..... 8- 8
8-14 Sewer, Lewistown, Mont..... 8- 8
8-14 Sewers, etc., New York, N. Y.... 8- 8
8-15 Sewers, etc., Staples, Minn..... 8- 8
8-15 Sewers, Elizabeth, N. J..... 8-15
8-15*Sewers, Arkadelphia, Ark..... 8- 1
8-15 Sewer, **Camden, Ark..... 7-25**
8-17*Sewers, etc., Asbury Park, N. J.. 8- 1
8-19 Sewers, Cape Girardeau, Mo..... 8- 1
8-19 Sewer, Port Clinton, O..... 8- 1
8-19*Sewers, etc., Riverside, N. J..... 8- 1
8-19 Sewers, etc., Webster Groves, Mo..... 8- 8
8-20*Sewers, Wildwood, N. J..... 8- 8
8-20 Sewers, Collinsville, Ill..... 8- 8
8-20 Sewers, Athol, Mass..... 8-20
8-20 Sewers, Cleveland Heights, O.... 8- 1
8-22 Sewers, etc., Fayetteville, Ark.... 8- 1
8-23 Disposal plant, Delaware, O..... 8- 8
8-26*Sanitary sewers, Baden, Pa..... 8- 8
8-28*Sewer, Louisville, Ky..... 8- 8
8-30*Sewers, Evansville, Ind..... 8- 8
9- 3*Sewer, New Philadelphia, O..... 8- 1
9-11*Sewers, etc., New Orleans, La.... 7- 4

STREETS AND ROADS.

8- 8*Paving, etc., Riverton, N. J.... 7-25
8- 9 Paving, etc., Monessen, Pa..... 8- 1
8- 9 Sidewalks, Lakewood, O..... 8- 8
8- 9 Curbs, etc., Bluffton, Ind..... 8- 8
8- 9 Approaches, Richmond, Ind..... 8- 8
8- 9 Paving, Indianapolis, Ind..... 8- 8
8-10 Paving, etc., Bridgeport, O..... 8- 8
8-10 Paving, etc., Scottville, Mich.... 8- 8
8-10 Paving, etc., Ilion, N. Y..... 8- 1
8-10 Macadam, etc., Celina, O..... 8- 1
8-10 Road, East Liverpool, O..... 8- 1
8-12 Paving, Muskegon, Mich..... 8- 8
8-12 Resurfacing, etc., Detroit, Mich.. 8- 8
8-12 Curbing, etc., Cedar Rapids, Ia. 8- 8
8-12 Paving, etc., Bushnell, Ill..... 8- 8
8-13 Paving, etc., South Bend, Ind.... 8- 8
8-13 Paving, etc., Ecorse, Mich..... 8- 8
8-13 Walks, etc., Clinton, Iowa..... 8- 8
8-14 Road work, Toledo, O..... 8- 8
8-14 Sidewalks, etc., Marshall, Tex... 8- 8
8-14 Sidewalks, etc., New York, N. Y. 8- 1
8-14 Paving, New York, N. Y..... 8- 1
8-15 Sidewalks, New York, N. Y..... 8- 1
8-15 Paving, Cairo, Ill..... 8- 8
8-15 Paving, etc., Elizabeth, N. J..... 8- 8
8-16 Road, Covington, Ind..... 8- 8
8-16 Grading, etc., Olympia, Wash.... 8- 8
8-17 Road, Bedford, Ind..... 8- 8
8-17 Road, Terre Haute, Ind..... 8- 8
8-17 Paving, Huntsville, Ala..... 8- 1
8-17 Paving, Cleveland, O..... 8- 1
8-19*Grading, etc., Westfield, N. J.... 8- 1
8-19 Approaches, etc., New York.... 8- 8
8-19 Paving, Steubenville, Ohio..... 7-25
8-19 Road, Pembroke, N. H..... 8- 8
8-19 Grading, etc., Toledo, O..... 8- 8
8-20*Paving, etc., Wildwood, N. J.... 8- 8
8-20*Macadam, etc., Woodcliff, N. J.. 8- 8
8-20 Sidewalk, Cleveland Heights, O.. 8- 1
8-21 Paving, etc., New York, N. Y.... 8- 8
8-21 Roads, etc., Ft. St. Philip, La.... 8- 8
8-21 Paving, etc., Aberdeen, Wash.... 8- 8
8-23*Macadam road, Etna, N. J..... 8- 8
8-24 Grading, Watertown, Wis..... 8- 8
8-24 Roads, etc., Whipple Barracks, Ariz..... 8- 8
8-26 Paving, etc., Jacksonville, Fla... 8- 8
8-26 Grading, etc., Ft. Washington, Md..... 8- 1
8-27*Paving, etc., **Pensacola, Fla..... 7-25**
8-28 Paving, Hoboken, N. J..... 8- 8
8-30 Macadam, etc., Marshfield, Mo... 8- 8
9- 3 Paving, Beardstown, Ill..... 8- 8
9- 3*Paving, New Philadelphia, O.... 8- 1
9- 3*State roads, Albany, N. Y..... 8- 8

MISCELLANEOUS.

8- 8 Miscell. supplies, Panama..... 8- 1
8- 9 Miscell. supplies, Panama..... 8- 1
8- 9*Riprap, **Boston, Mass.....8- 1**
8- 9 Patrol wagon, etc., N. Y., N. Y.. 8- 1
8-10*Reinforcing, West Point, N. Y.... 8- 1
8-10 Filling-in, Portsmouth, N. H.... 7-25
8-10 Bulkhead, Santa Barbara, Cal.... 8- 8
8-12 Retaining wall, Louisville, Ky... 8- 8
8-12*Dredging, **Norwalk, Conn..... 7-11**
8-12*Lock, etc., **Brownsville, Pa.... 7-18**
8-12*Dredging, Philadelphia, Pa..... 7-18
8-12 Miscell. supplies, Panama..... 8- 1
8-12 Dredging, Washington, D. C..... 8- 1
8-12 Tunnel, New York, N. Y..... 8- 1
8-13 Freight sheds, **New York, N. Y.. 7-25**
8-13 Tires, steel wire, N. Y..... 8- 8
8-14 Engineering supplies, Panama... 8- 8
8-14 Automobiles, New York..... 8- 8
8-14*Breakwater, Key West, Fla..... 7-25
8-14*Bear trap gates, Wheeling, W. Va. 7-18
8-15 Subway entrance, Boston, Mass.. 8- 1
8-16*Jetty work, Galveston, Tex..... 7-18
8-16*Dredging, Jacksonville, Fla..... 7-18
8-17 Breakwater, Oswego, N. Y..... 8- 1
8-19*Lamp posts, etc., West Point, N. Y..... 8- 1
8-19 Vessel, Washington, D. C..... 8- 1
8-19*Dredging, New London, Conn... 7-25
8-20*Wharf, San Diego, Cal..... 6-20
8-20*Fence, Oswego, N. Y..... 8- 1
8-20*Dredging, Charleston, S. C..... 8- 1
8-20*Dredging, Boston, Mass..... 8- 1
8-20 Copper wire, South Africa..... 8- 1
8-20 Supplies, Washington, D. C..... 8- 8
8-21 Buoys, etc., New York, N. Y.... 8- 1
8-22*Lantern, Hawaii..... 8- 1
8-22*Dredging, Savannah, Ga..... 7-25
8-23*Dredging, Savannah, Ga..... 7-25
8-24 Quay wall, Bremerton, Wash.... 8- 1
8-25 Dredging, Cheboygan, Mich..... 7-25
8-26*Embankment, New York, N. Y... 8- 1
8-26*Jetties, Jacksonville, Fla..... 8- 1
8-27 Breakwater, St. Peter's Bay, P. E. I.....8-8
8-28*Channel, Newport, R. I..... 8- 1
8-30*Suction dredges, New York, N. Y. 8- 1
8-30 Excav., Cape Porpoise, Me..... 8- 1
9- 3 Torpedo boats., Wash., D. C.... 7-25
9- 3*Pier, dredging, Milwaukee, Wis.. 8- 8
9- 4*Dredging, Providence, R. I..... 8- 8
9- 6*Concrete conduit, Montreal, Que. 8- 8
9-10 Drainage, Sibley, Iowa..... 8- 1
9-30*Searchlight outfit, Washington, D. C..... 8- 1
10- 5*Lock, dam, Vicksburg, Miss..... 8- 8
10- 5*Locks, dams, Mobile, Ala..... 8- 8

FOREIGN.

8-12 Electric railway, Spain..... 7-11
8-13 Locomotives, Australia 6-20
8-14 Elec. equip., Australia 6-27
8-16 Railway, Italy 7-11
9- 2 Wharf plans, etc., Sweden..... 5- 2
9-30 Railway bridges, Chile..... 8- 1
9-15 Abattoir plans, France..... 6- 6
12-31 City lighting, India 6- 6

CIVIL SERVICE.

8-12 Subinspectors, North Chicago, Ill. 8- 1
8-14 C. E., Supt. Constn., Wash., D.C. 7-18
8-14 Computer, Wash., D. C..... 7-18
8-14 Map printer, Wash., D. C..... 7-18
8-21 Draftsman, San Francisco, Cal.. 7-18
8-21 Aid, Washington, D. C..... 8- 1
8- 21 Computer, Washington, D. C.... 8- 1
8-22 Plan examiner, New York, N. Y.. 8- 1
8-22 Marine Steam Engr., Angel Island, Cal..... 8- 8
8-24 Marine Engr., Albany, N. Y..... 8- 8
8-24 Asst. Bacteriologist, Albany, N. Y..... 8- 8
8-24 Factory Inspector, Albany, N. Y. 8- 8
8-24 Elec. Meter Inspector, Albany, N. Y..... 8- 8
8-24 Examiner, Albany, N. Y..... 8- 8
8-24 Gas Meter Tester, Albany, N. Y. 8- 8
8-24*Leveler, Albany, N. Y..... 8- 1
8-24*Asst C. E., Albany, N. Y..... 8- 1
8-24*Bridge Designer, Albany, N. Y.. 8- 1
8-24*Bridge Draftsman, Albany, N. Y. 8- 1
8-24*C. E. Draftsman, Albany, N. Y.. 8- 1
8-24*Foreman, Albany, N. Y..... 8- 1
8-28 Electrotype Molder, Wash., D. C. 8- 8
8-28 Chief Engineer, Chicago, Ill..... 8- 1
9- 4 Document Cataloger, Wash., D. C. 8-15
9- 4 Hydrographic Surv., Cuba..... 8-15
9- 4 Engineer, Cheyenne Agency, S. Dak..... 8-15
9- 9 Crop Technologist, Wash., D. C. 8-15
9-11 Computer, Wash., D. C..... 8-15

RAILWAYS.

(* *denotes that this work is advertised in Engineering News.*)

CARROLLTON & WORTHVILLE.—An extension will be built from Worthville, Ky., to Owenton. The company now operates ten miles of railroad. James Gayle is Pres. and Gen. Mgr., at Carrollton, Ky.

CHARLESTON & WESTERN CAROLINA.—A press report from Augusta, Ga., states that this company may spend $1,000,000 for improvements, including new rails and extension of depot facilities. A. H. Porter is Engr. of Roadway, at Augusta, Ga.

CHATTAHOOCHEE VALLEY. — HARDAWAY & WRIGHT, of Columbus, Ga., have been awarded the contract for constructing the first 20 miles, from West Point, Ga., north, and the road probably will be extended to Franklin, about 32 miles from West Point. L. Lanier is Pres., West Point, Ga.

CHESAPEAKE & OHIO.—Regarding the statement in issue of July 11th, that "engineers are surveying for an extension along Johns Creek toward Craig Healing Springs," H. Pierce, Engr. of Construction, Richmond, Va., writes us that the C. & O. is not making any such extension.

CLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS.—The plan to build a line from Mt. Carmel, Ill., to Evansville, Ind., has been indefinitely postponed.

ENGLAND & CLEAR LAKE.—It is reported that steps will be taken to extend this railway to Lonoke, Ark., and thence to the Arkansas River. F. H. Sheldon is Ch. Engr., England, Ark.

GEORGIA & FLORIDA.—John Skelton Williams, Pres., Richmond, Va., states that the work of connecting the six small railroads in Georgia and Florida, which are to form this new system by the construction of about 150 miles of new road, is to be rapidly pushed to completion.

ILLINOIS & NORTHWESTERN.—Incorporated in Illinois to build a steam or electric railway from the town of Lyons to the town of New Trier, and to the town of Bloom, with a branch to the village of Lyons, all in Cook County, Ill. Principal office, Chicago. Incorporators and directors: A. V. Konsberg, H. S. Martin, E. J. Cady, O. P. Chamberlain and W. E. Phillips, all of Chicago.

INTER-MOUNTAIN RY.—Incorporated by James T. Barber, James A. Smith, Chester D. Moon, C. W. Lockwood, all of Eau Claire, Wis.; L. G. Chapman, Lyttleton Price and Crawford Moore, of Boise, Idaho, to build a line from the Boise River to Centreville, Idaho, 45 miles. Capital, $750,000, of which $510,000 has been subscribed.

KENTUCKY.—The Commercial Club, of Somerset, Ky., has called a meeting to raise $40,000 for a railroad to be built from Somerset to the Cumberland River, 7½ miles. A grade of 1½% has been surveyed. About $75,000 of bonds are to be issued.

MISSISSIPPI CENTRAL. — MICHAEL O'BRIEN, of Baton Rouge, La., is reported to have been awarded a contract for track-laying on the Mississippi Central R. R. extension from Brookhaven, to Natchez, Miss.

MISSISSIPPI.—The Finkbine Lumber Co., Wiggins, Miss., announces that it is considering an extension of about 20 miles to its logging road. It is not expected to make any connections nor to make the line a common carrier.

NEW YORK CENTRAL.—The EYRE CONSTRUCTION CO., Arcade Bldg., Philadelphia, is reported to have been awarded the contract for the N. Y. Central's Belt Line grade crossing elimination work in Buffalo, N. Y. Cost, $4,000,000.

*PENSACOLA, ALABAMA & WESTERN.—Bids received on July 20 (postponement from July 10 as advertised on June 27), by the Interstate Contract Co., 224 Brent Bldg., Pensacola, Fla., for grading about 40 miles of railroad, have been rejected and new bids will be taken. Work to be graded covers 20 miles of the Andalusia Division, and 20 miles of the Atmore Division. This road is to connect Pensacola and Memphis, via West Point. J. I. Miller is Ch. Engr., Pensacola.

PENSACOLA, ALABAMA & GEORGIA.—O. L. Bass, Pres., Pensacola, Fla., advises us that plans are not yet matured enough to be made public. No surveys have been made nor has right-of-way been secured. Noted on July 11.

PHILADELPHIA, BALTIMORE & WASHINGTON.—The directors of the Philadelphia, Baltimore & Washington R. R. Co., last week, authorized an increase of $5,000,000 in the indebtedness of the company, to be secured by bonds or otherwise, as the directors may decide later. It was not announced for what purpose the money is to be used, but it is believed it will be expended in connection with the construction of the Washington terminal. E. F. Brooks is Gen. Supt., Wilmington, Del.

STATESVILLE AIR LINE.—We are officially informed that surveys are now in progress for the section between Statesville, N. C., and Mount Airy, 65 miles. Contracts will be let when surveys are completed. Noted on July 11.

TANANA VALLEY.—Falcon Joslin, Pres. and Gen. Mgr., Fairbanks, Alaska, states that this company proposes to build a short extension up the Tanana River in the direction of Richardson. According to the Seattle "Post-Intelligencer," he says that "preliminary work on this project will be to it, and we expect to get it well advanced before the freeze-up. Our engineers will start on the work of definite location within a short time, and we hope to get a survey of taken up just as soon as we can get around about 70 miles of the course as a working basis, to be used this winter in perfecting plans for actual construction, which we hope to engage in immediately after the opening of navigation next year."

TEXAS.—We are officially advised that the Business Men's Club of San Angelo, Tex., and other business clubs along the proposed route, are enthusiastically projecting a steam railroad from San Angelo to Fort McKavett Junction and Kerrville, 160 miles. No definite steps have been taken yet. Donald Shilz is Secy., San Angelo.

WRIGHTSVILLE & TENNILLE.—A joint meeting of the stockholders of the Wrightsville & Tennille R. R. Co. and the Dublin & Southwestern R. R. Co., was held on Aug. 1, according to a dispatch from Atlanta, for the purpose of considering the consolidation of the two roads. It is contemplated to increase the capital stock of the Wrightsville & Tennille road from $300,000 to $600,000, and to issue bonds not exceeding 300,000 for the improvement of the Dublin & Southwestern. The latter railroad has been owned by

the Wrightsville & Tennille for some time, but has hitherto been separately operated. The consolidated railroads will be 108 miles in length. The combined capitalization at present is $500,000, without any bonded indebtedness, while the fair market value is estimated at $1,500,000. A. F. Daley is Pres., Tennille, Ga.

WOLCOTTVILLE & COLDWATER.—O. G. Wales, Pres., Kansas City, Mo., advises us that this company, which proposes to build a steam railroad 35 miles long from Wolcottville, Ind., to Coldwater, Mich., via Panama, Brushy Prairie and Mongo, probably will commence work within 30 days. Surveys are under way and right-of-way is partly secured.

ELECTRIC RAILWAYS.

WALTHAM, MASS.—Charles E. Stevens, Sudbury, Mass., the promoter of the Boston, Waltham & Western Elec. R. R. Co., advises us that this line, when built, will be 23 miles long and will connect Waltham, Weston, Wayland, Sudbury and Maynard with Marlboro. Noted on June 13. The first section to be built is from South Sudbury to Maynard. Charter has not yet been secured. Company is capitalized at $240,000. The Board of Directors consists of Atherton W. Rogers, Charles E. Stevens, George A. Haynes, Winthrop H. Fairbanks and Rowland P. Harrison, all of Sudbury. The work of surveying the route is nearly completed, and the full set of plans of the proposed line together with company's petition for a franchise will soon be in the hands of the railroad commissioners.

ALBANY, N. Y.—The franchise for constructing and operating a street railway line from Clinton Ave., northerly along Ten Broeck St. to Livingston Ave., and westerly to Judson St., has been awarded to the United Traction Co. The necessary consent of the property owners has been secured. Chas. H. Smith, Supt.

SOUTH OTSELIC, N. Y.—Benj. F. Gladding, Pres. of the Otselic Trolley R. R. Co., which is building a railway between Georgetown Station and South Otselic, a distance of 13 miles, states that this company has laid three miles of track; about six miles are graded. Gasoline is being considered as the motive power. E. J. Stack is Vice-Pres.; DeWitt Crumb, Secy.; R. R. Brown, Treas. The company wishes to communicate with parties wishing to promote the project.

SLATINGTON, PA.—The directors of the Franklin & Towamensin St. Ry. Co., Slatington, have finished securing the right-of-way for their line, which is to be nine miles long, extending to Lehighton. This road will complete the 200-mile trolley chain between Philadelphia and Scranton. Construction will be started soon and it is planned to have cars running between Slatington and Bowmanstown, which is as far as the road will be built this year, by the end of December.

BALTIMORE, MD.—The Maryland Electric Railways Co. is planning to build a number of extensions in and about the city, it is said. The following are the extensions that may be made: From Highlandtown to Orangeville; from Towson to Lutherville; from Wilkens Ave. to Elkridge; from Catonsville to Towson (cross country); from Dickeyville to Loraine Cemetery, and a line through Guilford. W. Atlee is Ch. Engr. Continental Trust Bldg.

WINCHESTER, VA.—Plans for building the Winchester & Washington City Ry. Co.'s electric railway between this place and Washington by way of Bluemont will not be taken up for a year or more, we are advised by S. H. Hansbrough, Pres. The other officials of the company are: Charles Milliken, Clarke County, Vice-Pres.; Shirley Carter, Winchester, Secy.; S. L. Hoover, Winchester, Gen. Mgr. Executive Committee, S. H. Hansbrough, Charles Milliken and Lewis Cooper, of Winchester. D. M. Swink, Supt.

AMERICUS, GA.—W. A. Dodson states that the charter for the Americus Railway & Light Co. will be granted about Aug. 8. It is proposed to build four miles of street railway. Noted fully on Aug. 1 and July 25.

WAYCROSS, GA.—George W. Deen, Pres. of the Deen Realty & Improvement Co., confirms the report that he has secured a franchise for a street railway. He is not, however, at present able to give information about the proposed construction.

COVINGTON, GA.—Application for charter of incorporation for the Middle Georgia Interurban Railway has been filed, the petitioners being Charles F. Howe, Milledgeville; William F. Smith, Robert F. Smith and Samuel P. Smith, Flovilla; Stephen J. Smith, Jackson; Charles F. Preston, James W. Preston, Lawrence W. Roberts, Charles F. Robert and Ralph E. Watson, Atlanta. It is proposed to construct, equip and maintain a line of railroad from Griffin, Jackson, Mansfield and Social Circle, through the counties of Spalding, Butts, Jasper, Newton and Walton, with branch or branches from some convenient point or points to Flovilla, in Butts County, and Monticello, in Jasper County. The length of the new line will be about 70 miles, running in an easterly and northerly direction. Capital stock, $200,000.

FITZGERALD, GA.—The City Council probably will grant to S. T. Holtzendorf, W. T. Whitney and B. K. Waldridge, of New York; T. M. Parsons and C. A. Holtzendorf, of this city, and L. C. Holtzendorf, of Valdosta, a 40-year franchise to operate an electric railway within Fitzgerald and to suburban points.

DOTHAN, ALA.—Wm. Crawford, who has applied to the City Council for a street railway franchise, proposes to build and maintain a park about three miles out of the town, and therefore desires the use of Main St. in order to build the line.

PASCAGOULA, MISS.—Martin Turnbull states that he has undertaken the promotion of an electric railway from Mobile to Pascagoula, 40 miles. It is intended to organize the company, capitalized at $500,000, probably under the name of the Grand Bay Electric Ry. Co., of Pascagoula. The Bay Shore Railroad, from Mobile to Portersville, Ala., may be absorbed. Noted on July 25.

LEXINGTON, KY.—The Central Traction Co. has issued $300,000 of bonds and executed a mortgage to the Security Trust Co., of Lexington, for $250,000. This mortgage is secured by the bonds just issued and $100,000 of first mortgage bonds of the Central Kentucky Traction Co., which are held by the Lexington & Interurban Railway Co. The new bond issue was made by the Central Kentucky Traction Co. to supply the funds needed to complete the construction of interurban lines from Lexington to Winchester and Nicholasville, Ky. J. P. Pope is Ch. Engr., Lexington.

AKRON, OHIO.—Plans have been made for straightening the Akron, Bedford & Cleveland Division of the Northern Ohio Traction & Light Co., from a point five miles north of Cuyahoga Falls, to Bedford, Ohio. R. Trumbull is Ch. Engr.

INDIANAPOLIS, IND.—The officers and stockholders of the Indianapolis, Huntington, Columbia City & Northwestern Traction Co. have appointed a committee to devise ways and means of paying the company's debts and avoiding the sale of the road at receiver's sale Sept. 17, it is announced. The company has about 15 miles of grade and five miles of track near Syracuse. The labor claims amount to $13,000. If the road is completed, about $150,000 additional will have to be raised.

TERRE HAUTE, IND.—E. E. Barclay, Lock Box 140, Springfield, Ill., Secy. of the St. Louis, Terre Haute & Quincy Traction Co. (the "Q. T." system), advises us that the company will let construction contracts about September. The line will be built for heavy freight traffic, with easy grades and curves. It will extend from Terre Haute, Ind., to Marshall, Mattoon, Taylorville, Verden, Roodhouse, Pittsfield and Quincy, Ill., 250 miles. Surveys for 140 miles have been made and right-of-way is obtained. Capital is assured. Edward Yates is Pres., Springfield, Ill. Noted on June 20.

LANSING, MICH.—We are officially advised that contracts have been let to W. E. TENCH & CO., 210 John R St., Detroit, for the construction work of 40 miles of electric railway for the Lansing-Jackson Interurban Ry. of which T. W. Atwood is Pres. Operations will be commenced at Holt about five miles south of Lansing and the work pushed in both directions. The line will run through the same towns and cover practically the same territory that is traversed by the Michigan Central from Jackson to Lansing. It is expected that the stretch of track from Holt to Jackson will be completed in about three months.

MADISON, WIS.—We are officially advised that Daniel B. Ely, 2 Wall St., New York, is interested in the proposed electric railway to connect Madison and Janesville, Wis., 36 miles, running through Macfarland, Stoughton and Edgerton. The line will be of entirely new construction and right-of-way, which is mostly all obtained, will be private. No contracts have been let as yet.

ST. PAUL, MINN.—The Chicago Great Western Ry. Co. contemplates electrifying 62 miles of its present line between Winona and Rochester, Minn, it is said. Work will be commenced on the project early in 1908. Estimated cost, $500,000. W. H. Chadbourn is Ch. Engr., St. Paul.

WINONA, MINN.—The Winona "Herald" states that "according to statements given out by W. J. Ferris, Pres. and Gen. Mgr., at La Crosse, the La Crosse Water Power Co. is making preliminary preparations for interurban electric railway service between La Crosse and Winona."

BILLINGS, MONT.—Yegen Bros., of Billings, have presented a petition to the City Council asking that a special election be held for the purpose of submitting to the voters the question of granting to the petitioners a franchise for the construction of a street railway.

ARAPAHO, OKLA.—It is reported that an electric railway franchise has been granted in Arapaho and also in Clinton to Charles Goodwin, M. L. Holcombe and H. Smith, who propose to build a line connecting the two towns.

ENID, OKLA.—The Enid, Blackwell & Osage Interurban Traction Co., has been chartered, with headquarters at Enid. Capital, $1,000,000. Company will build from Enid to Pawhuska, 85 miles. The incorporators are George W. Bear, Frank Bradfield, S. I. Hudkins, John R. Clover, A. W. McQuilkin, T. C. Cone and Guy S. Manatt, all of Enid.

SEATTLE, WASH.—The Priest Rapids Railway Co. has been incorporated by W. R. Rust, of Tacoma; H. K. Owens, M. B. Haynes, and E. H. Gins, with a capital of $1,000,000 for the purpose of building and operating an electric railway 90 miles long in Douglas County. W. R. Rust will be actively identified with the construction of the road.

FRESNO, CAL.—Emil Newman, 530 Herman W. Hellman Bldg., Los Angeles, Ch. Engr., of the Fresno & Yosemite R. R., advises us that preliminary survey only has been made. Work is at a standstill for the present, but it is expected that the matter will be taken up again some time in October.

SACRAMENTO, CAL.—The Central California Traction Co. has announced that the extension to Lockford will not be built until the main line to Sacramento and Modesto is completed. The surveyors of the road are now completing the surveys to Sacramento from Lodi, and following the completion of the Lodi extension, the road will be pushed on to Sacramento, and then Modesto will be given attention. E. P. Hilborn is Gen. Mgr., Stockton, Cal.

LOS ANGELES, CAL.—N. D. Darlington, Gen. Mgr. of the Hueneme, Malibu & Port Los Angeles Ry., states that this company expects to build about five or six miles of track during the next three months. Work has already been started on one portion of the road.

REDDING, CAL.—F. L. Evans has made formal application to the City Trustees for a franchise authorizing him or his successors to operate a double-track electric railroad through Redding, the same to become a part of the system of the Eureka & Redding Ry. or the Inland Empire. W. H. Herzinger, as attorney for Mr. Evans, presented to the board a draft of an ordinance granting the franchise.

LIGHT AND POWER PLANTS.

(* *denotes that this work is advertised in Engineering News.*)

PITTSFIELD, MASS.—LEY & CO., of Springfield, Mass., are reported to have secured the contract to build a subway from the Stanley power-houses on east shore of Silver Lake to the Morningside and lower East St. shops. The subway, which is to be of concrete, will be 7 ft. high and 6½ ft. wide, ½ mile in length, and will be used as a conduit for steam pipes and electric power, testing and lighting wires. All of the wires and pipes now above ground will be placed in this conduit as soon as it is finished in the fall. Estimated cost, $25,000.

NEW BRITAIN, CONN.—Plans are being made by the Consolidated Ry. Co. to place new equipment in the old steam power station on Chestnut St. in this city so as to make the local plant independent of the power from the Bull's Bridge plant. The plant will be equipped with a 400-KW., 2,300-volt, 60-cycle, 3-phase generator, with switchboard and panel. The new machinery will be used for lighting and power purposes, and the electric railway system will continue to be operated from the Bull's Bridge plant at New Milford. J. W. Punderford, New Haven, Conn., is Gen. Mgr.

*WEST POINT, N. Y.—Bids are asked until noon, Aug. 26, by the Quartermaster, for furnishing and installing an electrical distributing and street lighting system.

WATERTOWN, N. Y.—Eaton & Brownell, 54 Smith Bldg., have completed plans, specifications and estimates for the development of water power for the Watertown Marble Co. It is said that it is doubtful if anything will be done this year.

CANAJOHARIE, N. Y.—The Montgomery Electric Light & Power Co. and the East Creek Electric Light & Power Co. are making arrangements to build a substation on West Main St. As soon as the building is completed the old substation will be abandoned. A. B. Cairns is Supt.

NEW YORK, N. Y.—Bids are asked by John H. O'Brien, Comr. Water Supply, Gas and Electricity, until 2 p. m., Aug. 15, for the following work:

For furnishing, installing, maintaining and reserving for the use of the high pressure fire service, all apparatus and equipment necessary for generating and transmitting 3,250 kilowatts of three phase, 6,600 volts, 25 cycle electric power, and furnishing and delivering this power, under the terms of this contract, to Aug. 15, 1908, at each of the high pressure fire service pumping stations, located in Boro. of Manhattan, at Oliver and South Sts. and at Gansevoort and West Sts., respectively.

For furnishing, delivering and putting in place lanterns and burning appliances for changing the lamps in the 30th Ward, Boro. of Brooklyn, from the present open-flame gas lamps to mantle gas lamps.

For furnishing, installing, maintaining and reserving for the use of the high pressure fire service all apparatus and equipment necessary for generating and transmitting 1,830 kilowatts of three phase, 6,600 volts, 25 cycle electric power, and furnishing and delivering this power under the terms of this contract to Aug. 15, 1908, at each of the high pressure fire service pumping stations, located in Boro. of Brooklyn, at Furman and Joralemon Sts., and at Willoughby and St. Edwards Sts., respectively.

For furnishing electric current for lighting and power purposes to the equipment owned by the city now installed or to be installed on the Williamsburg Bridge, for the term of this contract, from Aug. 15, 1907, to Dec. 31, 1907, both inclusive, in Boro. of Manhattan.

WILKES-BARRE, PA.—The Wilkes-Barre Heat, Light & Motor Co. has decided to erect a substation on South Main St., near Sullivan St. It is the intention of the company to supply the residents of the lower section of the city with steam heat.

PHILADELPHIA, PA.—John R. Wiggins & Co., contractors, 721 Heed Bldg., will soon erect a 2-story brick transforming station, 30 × 108 ft., at 1113 Arch St., for the Philadelphia Electric Co. Cost, about $85,000. John T. Windrim is Arch., Commonwealth Bldg.

BALTIMORE, MD.—The Consolidated Electric Light & Power Co., Alten S. Miller, Gen. Mgr., Lexington and Liberty Sts., will erect an electric substation in rear of Eastern Ave. and Broadway which will be one story high, 42 × 45 ft. P. O. Keilholtz, Engr. of the company, has prepared the plans and specifications.

WILMINGTON, DEL.—The Wilmington City Electric Co. is building a transmission line from this city to Newport for the purpose of furnishing electricity for lighting and power in the town of Newport, and along the line between the two places. The company has contracted with a number of manufacturing concerns in Newport to furnish electricity for power purposes, and also proposes to light Richardson Park, which is located between the two cities. S. S. Hoff is Gen. Mgr., Wilmington.

SAVANNAH, GA.—At a recent meeting of the City Council it was decided to secure the services of an electrical engineer to prepare specifications for the new contract for city lighting, which will go into effect Jan. 1, 1908.

COLUMBUS, GA.—We are officially advised that "the Columbus Power Co., for which Stone & Webster, 8[illegible] State St., Boston, act as general manager, has extensive holdings on the Chattahoochee River from Columbus almost to West Point. Exactly what the nature of the development along the river will be has not yet been definitely decided upon. Outside of one or two small developments for cotton mill purposes just below West Point we know of no other company or individual owning or contemplating a development in the line of water-power between Columbus and West Point." Noted on July 4.

CARROLLTON, MISS.—The building and plant of the Carrollton Electric Co. was recently destroyed by fire, it is reported, with the loss estimated at $10,000. The insurance was $6,000. B. F. Roach is Mgr.

HATTIESBURG, MISS.—J. P. Carter, C. H. Lindsley and others have organized company and applied for 25-year franchise to construct electric light and power plant.

LAFOLLETTE, TENN.—The Lafollette Coal, Iron & Ry. Co. has contracted with the MORGAN-GARDNER ELECTRIC CO., 2640 Shields Ave., Chicago, for a full electric equipment for its Gem mines at Peabody. The entire plant is to be installed by Oct. 15, 1907.

RUSKIN, TENN.—We are officially advised that C. B. Hensley, of Ruskin, is Engr. for the proposed electric plant for the Ruskin Cave Real Estate Co. Capacity, 200 No. 16-c. p. incandescent lamps. R. J. Kelly, Secy.

MONTEREY, TENN.—City is reported to have voted $25,000 for erecting a municipal light and water system.

VERSAILLES, KY.—The Versailles Electric Light Co. is contemplating extending its lines to Midway. T. B. Cassell is Ch. Engr.

CORYDON, KY.—The Corydon Milling Co. will replace its burned plant. Electric light and power equipment will be required.

TOLEDO, OHIO.—Bids were received July 26 by the County Auditor for building (A) heating and power-house, including stack for same, at the Lucas County Infirmary, also at the same time for (B) installing in the heating and power-house, boilers, dynamos, machinery and appurtenances; conduits and piping outside of power-house. Estimated cost, $27,000. Edward Bayer is Arch., 1630 The Nicholas Bldg.; J. W. Kerr is Chn. County Comrs. For (A) the following bids were received: Joseph Holtz, $16,130; the Henry J. Spieker Co., $15,417; M. Rabbit, $15,745; Frank R. Stahl, $14,217; Dixon Engineering & Construction Co., $16,740. Following are the bids on (B): Shaw-Kendall Co., $14,000; Robert Raitz & Co., $13,455; Toledo Heating & Construction Co., $14,450; Thos. Kewley, $14,400; Dixon Engineering & Construction Co., $16,520. The Toledo Electric Co. bid $945 on the switchboard, and the H. W. Johns-Manville Co. on the conduits alone.

FREMONT, OHIO.—The Fremont Power & Light Co. has announced that plans have been completed for utilizing the Sandusky River at this place for power purposes. Company will erect a power plant to cost $100,000. The plant will have a capacity of 2,000 HP.

BUCYRUS, OHIO.—The City Council has made an appropriation for preliminary plans for a municipal electric lighting plant.

YOUNGSTOWN, OHIO.—The Youngstown Steel & Tube Co. is preparing to expend $3,000,000 in improvements. An electric light and power plant will be constructed, it is reported.

NILES (Albany post-office), IND.—The City Council is reported to have authorized the Board of Public Works to proceed to ask for bids and let a contract for the erection of a new brick building in which to install a municipal lighting plant.

ST. JOSEPH, MICH.—Charles A. Chapin, First National Bank Bldg., Chicago, it is stated, will build three power dams on the St. Joseph River, to cost $5,000,000.

LANSING, MICH.—The Michigan Power Co. is contemplating erecting a transmission line to Charlotte for the purpose of furnishing electricity for street lighting.

PONTIAC, MICH.—Plans are being prepared by E. C. Betchel, Consult. Engr., for remodeling the plant of the Pontiac Lighting Co. The new equipment will include engines, boilers and generators. T. J. Weber is Supt.

PANA, ILL.—The Pana Gas & Electric Co. is planning to increase the capacity of its plant and will install a new generator and replace an engine and generator with a direct connected set. H. D. Larabee is Mgr.

*BLOOMINGTON, ILL.—Bids are asked by Harry E. Rhoads, City Clerk, until 5 p. m., Aug. 14, for one surface condenser air and circulating pump for the electric light plant, to be installed. A. T. Maltby, Consult. Engr., Great Northern Bldg., Chicago.

MARSEILLES, ILL.—W. D. Boyce, of Chicago, has been granted permission by the Illinois and Michigan Canal Commissioners to erect a transmission line along the towpath of the Illinois and Michigan canal from Marseilles to Joliet. Mr. Boyce is planning to build a large power plant in Marseilles to supply Ottawa, Morris and intervening towns with electricity.

PEKIN, ILL.—Improvements will be made by the Pekin Electric Light Co. to cost $50,000. A new smokestack will be built.

DAWSON, MINN.—See under Water Supply—Irrigation.

DULUTH, MINN.—Pastoret & Lunz, of Duluth, were lowest bidders on the Hillside water and gas and the Lakeside gas systems. On the Hillside contract their bid was $35,648, and on the Lakeside system it was $37,971.

WILLISTON, N. DAK.—An extension of time from June 10 to Oct. 20, 1907, has been granted to the General Electric Co., of Schenectady, N. Y., in which to furnish elec-

trical apparatus in connection with the Williston Irrigation Project, North Dakota. The delay in filling this contract was caused by changes in the specifications by the Government engineers.

ABERDEEN, S. DAK.—C. T. Freehauf, of Cresco, Iowa, is seeking a franchise for an electric light plant in this place.

STANTON, NEB.—City voted recently to issue bonds for a municipal electric light plant. The local electric light plant, owned by F. L. Sanders & Co., will be taken over by the city, according to an agreement made recently, on condition that the citizens voted to issue bonds.

TECUMSEH, NEB.—Frank Dinsmore, City Clerk, states that bids are wanted until Aug. 19 for the construction of an electric light plant to cost about $20,000. John Martz, of Seward, is Engr.

FALLS CITY, NEB.—John R. Crook, City Engr., states that the citizens have voted to issue $25,000 of bonds for water-works, $10,000 for electric lighting and $5,000 for park work.

BILLINGS, MONT.—A franchise will be granted to P. A. Williams, of Chicago, Ill., for the construction of a central heating plant and distributing system.

BROWNING, MO.—J. L. Kille, City Clerk, states that the citizens on July 22 voted to issue $6,000 of bonds for an electric light plant. No engineer has been engaged as yet.

HEBER, ARK.—W. H. Horton has secured a franchise for an electric light and heating plant for Heber.

WHARTON, TEX.—John W. Maxcy, C. E., Binz Bldg., Houston, has been engaged by A. P. Borden & Co., of Wharton, to prepare plans and specifications for a power plant, for the irrigation of 20,000 acres of rice land.

HUBBARD, TEX.—The Union Central Light & Ice Co., of Hubbard, is about to construct a plant to supply four of the neighboring towns with electricity, etc., and has issued $25,000 of bonds for same. W. A. Bass, Hubbard, is Mgr.

COTTAGE GROVE, ORE.—Fire recently destroyed the electric light station owned by the Willamette Valley Co. Loss, $20,000; insurance, $5,000.

BEEGUM, CAL.—James Barry and Charles Tozer, of Cottonwood, have filed a claim on 10,000 miner's inches of water of Beegum Creek and are planning to erect a dam at Beegum.

BOISE, IDAHO.—The Warm River Light & Power Co. has been granted a permit in Henry Lake National Forest to construct a dam across Warm River 16 ft. high, a pipe line, transmission line and power house to generate electricity for commercial purposes.

CAMPBELLFORD, ONT.—Bids are asked until Aug. 15 by W. J. Doxsee, Mayor, for rock-cutting, concrete work, turbine wheels, generators, and about 2¼ miles of transmission line for power development at Middle Falls, on the Trent River. John S. Fielding, Consulting Engr., 15 Toronto St., Toronto.

BRIDGES.

PITTSFIELD, MASS.—The Board of Public Works has let contract for constructing concrete bridge at Mill St., across Housatonic River, to H. C. WOOD & CO., of Westfield, Mass., at $5,119. Arthur B. Farnham is City Engr.

UTICA, N. Y.—The contract for repairing and constructing bridges across Real's Creek and across new channel of Mohawk River at North Genesee St. has been let to J. C. JEWHURST. Paul Schultz is City Engr.

ONEIDA, N. Y.—The Board of Public Works has let contract to FORREST MERRILL for constructing bridge across feeder at East Walnut St. John E. M. Scott is City Engr.

TOWANDA, PA.—Bids are asked by the County Commissioners, E. D. Harkness, Chn., until Aug. 15 for constructing James St. bridge across Susquehanna River between Wysox and North Towanda Townships.

CHAMBERSBURG, PA.—Bids are being received by the County Commissioners for erection of covered wooden bridge over west branch of Conococheague Creek in Metal Township at Kegerrels' Fording.

MINERS MILLS, PA.—The County Commissioners have awarded contract for constructing Mock St. bridge to the PENN BRIDGE CO., of Beaver Falls, Pa.

SCRANTON, PA.—The Board of Public Works, C. R. Acker, Dir., has awarded contracts for constructing bridges as follows: Lackawanna Ave. bridge, YORK BRIDGE CO., York, Pa., $83,997; Scranton St., NELSON CONSTRUCTION CO., of Chambersburg, Pa., $10,390; Linden St., NELSON CONSTRUCTION CO., $9,770; Green Ridge St., JOHN F. WHITTAKER, of Williamstown, Pa., $31,944; Cedar Ave., FLOYD COLLIS CO. of New York, $53,918. James Langan is City Engr.

CUMBERLAND, MD.—The Baltimore & Ohio R. R. Co. has awarded contract for construction of two additional piers and topping out of present piers on bridge 94, over Tray Run, on the Cumberland division, to permit change from present deck trusses to deck girder bridge, to CHARLES A. SIMS & CO., Harrison Bldg., Philadelphia, Pa. D. D. Carothers, at Baltimore, Md., is Ch. Engr.

FT. MYER, VA.—Bids are asked until Aug. 20 for constructing bridge on Military Road, to Ft. Myer, Va., by Maj. Gray Zalinski, Q. M., U. S. A., Washington, D. C.

GRAFTON, W. VA.—The CANTON BRIDGE CO., Canton, Ohio, has secured contract for building bridge at Grafton, W. Va. Cost, $25,000.

*PLAQUEMINE, LA.—Bids are asked by the Bridge Commission of Iberville Parish until noon, Sept. 9, at offices of Police Jury, Plaquemine, for constructing approaches and steel draw bridge over Bayou Plaquemine. Jules A. Herbert is Clk. Police Jury.

NASHVILLE, TENN.—The contract for building concrete piers for two highway bridges across Cumberland River, reinforced concrete viaduct approaches for Sparkman and Jefferson St. bridges and furnishing borrow pits and filling parts of approaches of said bridges has been awarded to FOSTER & CREIGHTON, of Nashville, for $510,000. Bids were received July 10 by the Cumberland Bridge Commissioners of Davidson County. W. M. Pollard is County Judge.

MOUNT PLEASANT, TENN.—The County Road Commissioners have decided to construct two steel bridges to replace present bridges on Mt. Pleasant Pike.

LEBANON, OHIO.—Bids are asked by S. A. Stillwell, County Audr., until Aug. 24, for constructing superstructure over Little Miami River at Mathers Mill, two miles south of Oregonia to consist of a 2-span high truss steel bridge, with permanent floor, each span 135 ft. on pin centers, and clear roadway of 16 ft.; also for substructure, consisting of abutment and pier and refacing of one old abutment. Samuel D. Henkle is County Surveyor.

PORT CLINTON,* OHIO.—Bids are asked until Aug. 17 by the Board of County Commissioners for furnishing material and constructing superstructure and substructure for bridge to have 65-ft. span, 16-ft. roadway across Crane Creek, Allen Township. Henry Pafenbach is County Audr.

ANDOVER, OHIO.—Bids are asked by P. C. Remick, County Audr., until 1 p. m., Aug. 19, for constructing reinforced concrete bridge.

CINCINNATI, OHIO.—Bids are asked by the Board of Public Service until 12 noon, Aug. 16, for reconstruction and repair of Liberty St. viaduct and approaches, from Garrard to State Aves. M. J. Keefe is Clk. Bd. Pub. Service. Charles N. Dannenhower is Ch. Engr.

URBANA, OHIO.—Bids are asked until Aug. 19 for constructing bridge on Kiser Road in Johnson and Rush Townships. C. E. Russell is County Audr.

TIFFIN, OHIO.—The County Commissioners have received bids for repairing Perry St. bridge, as follows: The Central Concrete & Construction Co., $8,250, and the Modern Construction Co., of Fremont, $7,997. The Modern Construction Co. also submitted a bid of $7,397 for the work upon their plans.

PORT HURON, MICH.—The Common Council has let contract to the HURON BRIDGE & IRON CO. for constructing the Stone Road bridge across Lake Huron Canal, for $5,800.

CHICAGO, ILL.—Bids are asked by the Department of Public Works, John J. Hanberg, Comr., until 11 a. m., Aug. 17, for constructing substructure and superstructure of South Ashland Ave. bridge.

EAST ST. LOUIS, ILL.—We are officially informed that the following bids were received Aug. 1 by the Board of Local Improvements for repairing the Broadway viaduct across Cohopia Creek: Union Bridge & Construction Co., Kansas City, Mo., $53,175; Pan-American Bridge Co., New Castle, Ind., $63,704; J. T. W. Rudesill Rude Engineering Co., East St. Louis, $52,680, and Wright-Gallagher Construction Co., Chemical Bldg., St. Louis, Mo., $55,748. W. J. Crocken is City Engr.

*COUNCIL BLUFFS, IOWA. — Bids are asked by W. F. Sapp, City Clk., until Aug. 19, for constructing two reinforced concrete bridges, together with retaining walls, spandrel walls and railing complete, across Indian Creek, one at Frank St., and other at Eighth St. S. L. Etnyre is City Engr.

DES MOINES, IOWA.—Bids are asked by the Board of Public Works, W. W. Wise, Chn., until Aug. 20, for constructing reinforced concrete bridge, 66 ft. wide, with five 80-ft. spans, across Des Moines River at Locust St. Estimated cost, $100,000. Geo. D. Dobson is City Engr.

HAVRE, MONT.—O. E. PEPPARD, of Missoula, Mont., has secured contract for constructing steel bridge across Big Sandy Creek, west of Havre, for $4,183.

GLENDIVE, MONT.—The Secretary of the Interior has awarded contract to A. Y. BAYNE & CO., 202 Commercial Bldg., Minneapolis, Minn., for construction of three steel highway bridges in connection with the Lower Yellowstone Irrigation Project, N. Dak.-Mont., for $7,026. The bridges will be located at the following points: War Dance, Coulee, Yakey's and Pettigrove's.

KANSAS CITY, MO.—The Commercial Improvement Co. has decided to construct a viaduct on Main St., from 20th to 23d Sts. Estimated cost, $10,000. Edgar A. Hayser is City Engr.

PINE BLUFF, ARK.—James Gould, County Judge, has let contract for constructing steel bridge, 220 ft. long, across Bayou Bartholomew to J. I. BOGGS, of Little Rock, Ark., for $3,500.

ROSENBERG, TEX.—The County Commissioners will construct bridge across Brazos River. Estimated cost, $30,000.

MT. VERNON, WASH.—Contract for construction of wagon bridge across Polson Slough has been awarded to J. E. KIMBLE.

PATEROS, WASH.—Bids are asked by the State Highway Board, at Olympia, until Aug. 16, for constructing wagon bridge across Methow River at State Road No. 10.

REDWOOD CITY, CAL.—Bids are asked by the Board of Supervisors, Joseph H. Nash, Clk., until 10 a. m., Aug. 19, for constructing wooden bridge across Tunitas Creek.

MADERA, CAL.—Bids are asked by the Board of Supervisors, W. R. Curtin, Clk., until 10 a. m., Sept. 16, for constructing bridge across Horace Gold Creek.

OAKLAND, CAL.—The Board of Supervisors has let contract for constructing concrete bridge across Redwood Creek to PETER NATHAN & SON.

BUILDINGS.

NEW YORK, N. Y.—Plans have been filed with the Building Superintendent for a 5-story Home and Institute for Seamen, to be built at the corner of Jane and West Sts. by the American Seamen's Friend Society, of which the Rev. Charles Augustus Stoddard is head. The interior arrangement will comprise a restaurant and a swimming pool in the basement, an assembly hall and a chapel and reading room on the main floor, and social halls and dormitories on the upper stories. There will also be a bowling alley in an extension. The building is to cost $150,000. Boring & Tilton, 32 Broadway, are Archs.

Bids are asked by John F. Ahearn, Pres. Boro. of Manhattan, until 2 p. m., Aug. 14, for general alterations, decorations, etc., to provide additional space in the Criminal Courts Building on the block bounded by Centre, White, Franklin and Lafayette Sts., in the Boro. of Manhattan.

Plans have been filed with the Building Superintendent for a 10-story and basement apartment house to be erected for the Sixty-fourth Street Co. at the corner of Madison Ave. and 64th St. It will have a frontage of 121.8 ft. and a depth of 100 ft., and is to cost $800,000. William E. Mowbray, 1298 Broadway, is Arch.

NEW YORK, N. Y.—We are officially advised the preliminary plans have been prepared by Lord & Hewlett, 245 Fifth Ave., New York, for the proposed municipal building for the Borough of Brooklyn. The structure will be built in two parts, each costing about $3,000,000. It will be ten stories high, constructed probably of marble, about 278 × 180. Bird S. Coler is Pres. Boro. of Brooklyn.

NEW YORK, N. Y.—The following bids were received by John F. Ahearn, Pres. Boro. of Manhattan, on July 29, for labor and material required (except for plumbing work) for the erection and completion of a public bath building at Nos. 5 and 7 Rutgers Pl., Boro. of Manhattan: P. Gallagher, 1183 Broadway, (a) $162,700, (b) $2; Libman Contracting Co., 1968 Broadway, (a) $162,000, (b) $1; F. T. Nesbit Construction Co., 116 Nassau St., (a) $163,400, (b) $2.

The bids received at the same time for labor and materials required for installation of plumbing work in a public bath building to be erected at Nos. 5 and 7 Rutgers Pl., Boro. of Manhattan, were: M. J. O'Brien, 2142 Broadway, (a) $21,693, (b) 1 ct.; J. P. Lewis, New York, (a) $21,700, (b) 75 cts.; Kenney, Renner Co., 135 West 24th St., (a) $22,300, (b) 1 ct.

NEW YORK, N. Y.—The EMPIRE BRIDGE CO., Elmira, N. Y., has contract for supplying about 20,000 tons of material for the Pennsylvania R. R. Co.'s terminal, now being built in this city.

NEW YORK, N. Y.—Bids were received as follows by the Department of Health on Aug. 6 for erecting a fireproof office building at Willoughby and Fleet Sts., Brooklyn Boro.: Richard E. Henningham, 1 Madison Ave., $259,382; Chas. H. Peckworth, 415 Hudson St., $265,885; A. L. Guidone, 1 Madison Ave., $276,851; H. M. Weed & Co., 124 West 45th St., $272,272; Kelly & Kelley, 45 East 42d St., $259,700; Patrick Gallagher, 1183 Broadway, $252,900; Edmund D. Broderick, 1382 Lexington Ave., $279,000.

Bids were received on Aug. 5 by the Board of Education for installing (A) heating apparatus, and (B) electric elevators in the office and storage building on Livingston St. and Red Hook Lane, Boro. Brooklyn. R. J. Sovereign, 63 Fifth Ave., was lowest bidder on item (A), at $9,621; the D. H. Dairin Elevator Co., 131 Liberty St., was only bidder on (B), at $9,850.

Bids were received on Aug. 5 by Board of Education for electrical equipment in Public School No. 129, Boro. Brooklyn. The Gore-Duggan Electrical Co., 206 Broadway, was lowest bidder, at $6,254.

ALBANY, N. Y.—The board of directors of the First National Bank, Albany, has awarded to the M. L. RYDER BUILDING CO., of Albany, the contract for the construction of its new 6-story building, at 35 and 37 State St. The contract for the heating plant was awarded to the JAMES HUNTER HEATING & CONTRACTING CO., Albany. The plumbing contract was awarded to M. DELEHANTY'S SON, Albany. The entire work is to cost $125,000. Frederick A. Mead, Albany, is Pres. of the bank.

LONG BEACH (L. I.), N. Y.—Plans are contemplated, it is stated, for building a $1,500,000 hotel at Long Beach on the site of the one burned July 29. A concrete walk, 5½ miles in length, is also to be constructed to cost $750,000, and 100 reinforced concrete houses with steel will be built at a cost of $12,000 to $20,000 each. This whole work is expected to be completed by the spring of 1908. The hotel will be built of reinforced concrete and steel, will be fireproof, and will contain 800 rooms, each provided with a bath, supplied with hot and cold, salt and fresh water. The hotel will have salt water tanks in the basement, which will be stocked with fish of all kinds. The block adjoining the hotel site has been bought, and a bathing pavilion and a swimming pool over 20 ft. long, somewhat similar to the new Casino at Deal Beach, N. J., will be established there. Tennis courts, squash courts and racquet courts will adjoin the tanks. Jason Waters, Windsor Hotel, Atlantic City, N. J., is interested.

BUFFALO, N. Y.—Bids are asked until 3 p. m., Sept. 16, by James Knox Taylor, Superv. Arch., Washington, D. C., for construction (except elevators), of the U. S. marine hospital, at Buffalo.

TRENTON, N. J.—Spencer Roberts, Arch., 26 South 15th St., Philadelphia, Pa., has completed plans for the proposed city hall to be built at Trenton. It will be three stories high, of stone and steel, fireproof construction, with open plumbing, tile and marble work, plate and leaded glass, electric light fixtures, steam heat, etc. Cost, $800,000. Bids will be advertised for about Aug. 15.

*PITTSBURG, PA.—Bids are asked until 3 p. m., Sept. 16, by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C., for construction (except elevators) of the U. S. Marine Hospital, at Pittsburg.

EASTON, PA.—A. A. Ritcher, New Shenk Bldg., Lebanon, Pa., has been engaged to prepare plans for a 7-story bank and office building, 32 × 158 ft., at Fourth and Northampton Sts., Easton, for the Northampton National Bank. The structure will be of steel, fireproof construction, with granite, press brick and terra cotta. Cost, $180,000.

WASHINGTON, D. C.—Bates Warren, Columbian Bldg., 416 Fifth St., N. W., represents builders who have purchased 55 acres of land at Florida Ave. and 15th St., N. E., and will erect 200 buildings on the site at cost of $600,000.

Bids were received as follows July 31, at the office of Elliott Woods, Supt. of the U. S. Capitol Buildings and Grounds, Washington, D. C., for marble floors for stairhalls, staircases, wall bases, etc., for the House of Representatives office building: Vermont Marble Co., Proctor, Vt., (A) $143,000, (B) $59,900, (C) $17,100, (D) $22,100, (E) $23,000, (F) $20,300, unit price 50 cts., using Rutland County marble, light and dark Blue Ridge Marble Co., Nelson, Ga., (C) $13,850, (D) $17,368, (E) $18,250, (F) $15,028, unit prices 60 cts., using light Cherokee marble; alternate proposal, $14,665. Rutland Florence Marble Co., Fowler, Vt., (E) $15,635.

Bids were received at the same time and place for furnishing stone work for vestibule and stair-hall, Senate Office building: Vermont Marble Co., Proctor, Vt., $44,600; B. A. & G. N. Williams, 5 East 42d St., New York, $47,750.

Bids were received at the same time and place for furnishing and delivering, only, direct heating radiators for hot water heating, House of Representatives Office building: J. B. Clow & Sons, Chicago, on bidders' specifications, (A) $9,682, (B) $10,807; H. B. Smith Co., 728 Arch St., Philadelphia, $9,620; U. S. Radiator Co., Dunkirk, N. Y., $9,267; Shirley Radiator & Foundry Co., Indianapolis, Ind., $8,995; J. L. Mott Iron Works, Home Life Building, Washington, $9,115.

Bids were received at the same time and place for installing the steel shelving equipment for the Chief Clerk of the Supreme Court of the District of Columbia: Berger Mfg. Co., Canton, Ohio, $36,738; Krag Imperial Cabinet Co., Chicago, $33,811; General Fireproofing Co., Youngstown, Ohio, $30,800; Ohnstrand Metal Furniture Co., Jamestown, N. Y., $30,661; Art Metal Construction Co., Jamestown, N. Y., $20,400; Van Dorn Iron Works, Cleveland, Ohio, $24,997; Canton Art Metal Co., Canton, Ohio, $40,586.

*WASHINGTON, D. C.—Bids are asked until noon, Sept. 3, by Maj. W. C. Langfitt, Corps Engrs., U. S. A., for construction of two double sets of non-commissioned officers' quarters at Washington Barracks, D. C.

PORTSMOUTH, VA.—The GEO. A. FULLER CONSTRUCTION CO., of Fuller Bldg., New York, submitted the only bid recently for erecting an addition to the Naval Hospital at Portsmouth, at $246,500. Appropriation is $200,000.

LUMBERTON, N. C.—Bids are asked by Board of County Commissioners until Aug. 20 for construction of court-house. J. W. Carter, Chn.

BAKERSVILLE, N. C.—Bids are asked until Aug. 15 by Jos. Bowditch, Chn. Board of County Comrs., for furnishing material and erecting a court-house. H. L. Lewman, Arch., 1008 Lincoln Bank Bldg., Louisville, Ky.

ST. AUGUSTINE, FLA.—The contract to erect the Seminole Theater and business block for the Realty & Theater Co. has been awarded to the FALL CITY CONSTRUCTION CO., of Louisville, Ky. Cost, $100,000.

MARIETTA, OHIO.—Bids are asked by A. H. Snider, Pres. Marietta Masonic Bldg. Co., until noon, Aug. 10, for erecting a 4-story brick building. W. A. Decker, Arch.

CLEVELAND, OHIO.—The Board of Education, Charles Orr, Dir. Schools, proposes to erect a school building, on Columbia Ave., N. E., to cost $125,000.

DELAWARE, OHIO.—Bids are asked by the Board of Trustees of the Girls' Industrial Home until noon, Aug. 23, at the office of Marriott & Allen, Archs., Columbus, Ohio, to complete all branches of the work and all items which were omitted in the letting of the general contract for building the Industrial and Technical building at the Girls' Industrial Home, Delaware.

YOUNGSTOWN, OHIO.—Owsley, Boucherle & Co., Archs., 19 Wick Ave., are preparing plans and will receive bids in about five weeks for a 4-story court-house, 236 × 130 ft., for the commissioners of Mahoning County. Construction will be of granite and terra cotta, with copper skylights, plate glass, marble, mosaic and tile work, patent plaster, reinforced concrete, iron and steel work, terra cotta, electric fixtures, plumbing, art glass, metal lath, fireproof windows, steam heat, etc. Cost, $900,000.

SOUTH BEND, IND.—The Studebaker Mfg. Co. has awarded general contract to WELLS BROS. CO., Monadnock Block, Chicago, for constructing an office and depository building, to cost about $250,000.

BLOOMFIELD, IND.—Bids are asked until Sept. 3 by the County Auditor at Bloomfield, for furnishing material and erecting complete a cell house and cell work in the Green County jail. J. W. Gaddis, Arch., Vincennes.

WILLIAMSPORT, IND.—R. L. Winks, County Audr., writes that bids are wanted on Aug. 31 for erecting a jail.

The contract for erecting Warren County court-house (bids opened July 18) has been awarded to JAHR & COPE, of Champaign, Ill., for $68,050.

HOWELL, MICH.—Bids are asked until Aug. 15 by Dr. Henry J. Hartz, Secy., 27 Adams Ave., East, Detroit, for furnishing

material and erecting complete a main sanatorium, administration building and connections, and a wing to same; also for dining-room extension to present building, to be erected on the grounds in the vicinity of Howell. Bids are to be made as follows: First, for general construction, including main administration building and connections, and wing and dining-room extension complete; 2, separate proposals for main administration building and connections complete, exclusive of wing and dining-room extension; 3, separate proposals for dining-room extension complete; 4, plans and bids for sewage disposal purification plant.

CHICAGO, ILL.—Postle & Mahler, Archs., 204 Dearborn St., have prepared plans and will take estimates for a warehouse building at Blue Island Ave. and Leavitt St. for the International Harvester Co., 7 Monroe St. The structure is to be seven stories high, 178 × 256 ft., built of brick and stone, steel construction, with fireproofing, composition roof, electric fixtures and steam heat. Cost, $700,000.

Plans have been completed by C. A. Eckstorm, 131 La Salle St., for a mercantile building at the corner of Wabash Ave. and Eldrege Court for Robert P. Bass, 180 La Salle St. The building is to be eight stories high, 42 × 165 ft., built of brick, steel and mill construction, with plate glass, oak finish, gravel roof, gas and electric fixtures, water closets, washstands. Estimated cost, $120,000.

KANKAKEE, ILL.—The County Board has under consideration the erection of a court-house in Kankakee County at a cost of $225,000.

CHICAGO, ILL.—The International Harvester Co. is reported to have awarded contract for erection of a 5-story warehouse, 179 × 258 ft., at 26th and Leavitt Sts., to the FEDERAL IMPROVEMENT CO., The Rookery. Cost, $200,000. Postle & Mahler, Archs., Marquette Bldg.

CHICAGO, ILL.—Treat & Ahlschuler, Archs., 277 Dearborn St., have let plumbing contract for a warehouse and office building, at 35th St. and Ashland Ave., for Spiegel May Stern Co., 148 South Sangamon St., to E. J. FARWELL, 42 Sherman St. Warehouse is to be two stories high, 90 × 150 ft.; office to be 14 × 90 × 150 ft., built of brick. Cost, $200,000.

Holabird & Roche, Archs., 100 Jackson Blvd., are preparing plans and will be ready for figures about Sept. 1 for the city hall building, at Randolph, La Salle and Washington Sts., which is to be eleven stories high, built of brick, stone, terra cotta, steel and granite, a companion structure to the county building. Cost, $4,500,000. J. J. Badenoch is Chn. of Com.

MILWAUKEE, WIS.—Bids probably will be received soon by the Auditorium Committee for erecting an auditorium according to plans prepared by Ferry & Clas, 419 Broadway, Milwaukee.

NATIONAL HOME, WIS.—Bids are asked until Aug. 14 by J. E. Armitage, Treas., Northwestern Branch, N. H. D. V. S., National Home, for erecting officers' quarters.

MUSCATINE, IOWA.—Bids are asked by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, until 3 p. m., Sept. 19, for construction of U. S. post-office.

CROOKSTON, MINN.—Bids were opened as follows Aug. 5, at the office of the Supervising Architect, Treasury Dept., Washington, for the construction of the United States post-office building at Crookston. Lauritzen Bros., Fergus Falls, Minn., was lowest bidder, at $50,990; Jan. 1, 1909.

OMAHA, NEB.—The Paxton & Gallagher Co. has decided to expend about $600,000 in building its new warehouse and offices, to extend from Ninth to Tenth Sts., on Jones St., and make the building nine full stories and a basement in height, instead of eight stories, as had been contemplated. Revised plans are being completed by Thomas R. Kimball for the building, which will be 278 × 248 ft., occupying the entire irregular tract of land between Ninth and Tenth Sts., from Jones St. to the tracks at the south. The first building of the warehouse is under construction on the site of the collapsed structure, 113 × 132 ft. Upon its completion in November the adjoining building, of the same size, will be torn down for another extension, and the Tenth St. office will be built.

ST. LOUIS, MO.—Drischler & Elsner, Wainwright Bldg., are preparing plans for a 3-story poor house, 107 × 108 ft., for the Board of Public Improvements, W. B. Dryden, Secy. Brick, stone and reinforced concrete will be used in construction, with copper cornice, fireproofing, plate and prism glass, marble and tile work, metal lath, hard plaster, slate and composition roofing, iron and steel work, corner beads, coal chute, door hangers, fireproof windows, gas and electric fixtures, steam heat, mantels and plumbing. Estimated cost, $150,000.

Work on the new La Salle Building, at the corner of Broadway and Olive St., is to begin at once. The permit for the structure has been issued by the Building Commissioner, the estimated cost being $600,000. Plans for the building have been prepared by H. F. Roach, Arch., Chemical Bldg. The building is being erected for the La Salle Investment Co., William H. Miltenberger, Pres., city. The basement will be sunk to a depth of 65 ft., reaching bed rock. The building will face 28 ft. on Broadway and 102 ft. on Olive St. The main entrance will be on Olive St. The exterior will be finished with brown brick. CALDWELL & DRAKE have contract for construction.

FORT SMITH, ARK.—We are officially advised that bids will be received about Aug. 25 for constructing a 6-sty hotel, 135 × 120 ft., for the Fort Smith Hotel Co. The building will be of fireproof, reinforced concrete and brick construction, and will have refrigeration plant, filter, pumps and elevators. H. E. Hewitt, Arcade Bldg., Peoria, Ill., is Arch.

SAN ANTONIO, TEX.—The Woods National Bank has secured lease on site, 26 × 100 ft., on which to erect a 10-story steel office building, furnished with electric lights and fans, hot and cold water, etc., and to cost $150,000. William F. Woods is Cashier.

FORT SAM HOUSTON, TEX.—The War Department has awarded general contract to ZIEGLER & DALTON, Junction City, Kan., for erecting the following buildings at Fort Sam Houston: One colonel's quarters; one bachelor officers' quarters; fourteen captains' quarters; one veterinary stable; four double mess halls and kitchens; one band mess and lavatory building; one band barracks. All to be of brick. Cost, $325,000.

FORT WORTH, TEX.—The Supervising Architect of the Treasury, Washington, D. C., has awarded contract for the construction of the extension to the post-office building at Fort Worth, Tex., to JOHN BARDON, Fort Worth, Tex., at his bid of $111,421; time of completion, Dec. 8, 1908. Noted on July 11.

OKLAHOMA CITY, OKLA.—L. M. Wood, Arch., Topeka, Kan., is preparing preliminary plans and will receive bids for a 7-story office building, 75 × 150 ft., to be built at Main St. and Broadway, Oklahoma City, for George C. Kelly, Birmingham, Ala. Brick, stone and terra cotta will be material used in construction, with galvanized iron cornice and skylights, plate glass, marble and tile work, hard plaster, asbestos and shingle roofing, structural iron and steel work, gas and electric fixtures and plumbing. Estimated cost, $125,000.

TACOMA, WASH.—Plans have been prepared for erection of a 23-story building north of Union Club, with a frontage on C St., and extending through to Pacific Ave. The estimated cost of the building is $2,000,000, and the promoters are Edmund Croft, John C. Donnelly, A. P. Gilles and associates.

SEATTLE, WASH.—A building for the Samuel and Jessie Kenney Presbyterian Home for the Aged is to be erected at Lincoln Beach from the plans prepared by Graham & Myers, Archs., Globe Bldg., Seattle. It is expected to have the home ready for occupancy by March, 1908.

PORTLAND, ORE.—Bids are asked until noon, Aug. 28, by County Clerk, for improvements and alterations to be made on the Multnomah County armory building, at Tenth and Church Sts. Richard Martin, Jr., Arch., Dekum Bldg., Portland.

PORTLAND, ORE.—According to press reports, it is planned to erect a $1,000,000 building on the Pennoyer Block.

EUREKA, CAL.—Bids are asked by George W Cousins, Clerk of the Board of Supervisors of Humboldt County, until 10 a. m., Sept. 11, for construction of a county jail building.

BERKELEY, CAL.—Work on the new Doe Library for the University of California at Berkeley will be commenced at once, a contract for the erection of the concrete foundation having been let to the CONTRA COSTA CONSTRUCTION CO. by the Regents. The cost of the foundation will be $33,000. About $600,000 is at present available for the library building, but the plans call for a structure which will cost $2,000,000 when complete. The building will be erected in sections as rapidly as funds are raised. The Doe Library will be erected on a site east of California Hall and higher on the slope toward the hills.

SAN FRANCISCO, CAL.—The Southern Pacific Co. will build a new railroad hospital in San Francisco soon, to replace the one destroyed by fire. The site is the block north of the entrance to Golden Gate Park, bounded by Fell, Hayes, Baker and Lyon Sts. The new hospital will have 225 beds and will cost $600,000. The building, which will be built largely of reinforced concrete, will be in the form of an H. There will be an east and a west wing, with an administration building in the center connected with the wings by wide corridors. The main front of the building will be 220 ft. 8 ins. on Fell St. Each wing will be 86½ × 150 ft., with the administration building 72 × 108 ft. There will be four stories. The frame will be reinforced concrete, with the outside walls brick and the outside surface finished in white stucco. All partitions will be made of steel studs, with metal lath and plaster, and the floors of glazed ceramic tiles of different patterns. The only woodwork in the building will be the doors and windows. W. Hood is Ch. Engr., San Francisco.

SALT LAKE CITY, UTAH.—Plans for erection of car houses, shops, office buildings and a club-house have been approved by W. H. Bancroft, Pres., and the engineers of the Utah Light & Ry. Co. The plans call for an expenditure of $635,639, and the work is to be commenced at once. The improvements will be made on the old Exposition Sq. at Sixth and Seventh East and Fifth and Sixth South Sts. The plans call for one large building, following the outline of the square, and containing shops, store-rooms and storage tracks to accommodate 144 cars of 45 ft. length each, with inspection pits under each track. The office building, containing club-rooms for the men also, will be at the corner of Seventh East and Fifth South Sts., and will cost $75,000. O. A. Honnold is Ch. Engr.

MOSCOW, IDAHO.—Bids are asked until 2 p. m., Aug. 30, by the Board of Regents, for constructing a 3-story administration building at Moscow for the University of Idaho. The building will be 80 × 238 ft., of metal, stone and brick construction, and must be complete by Sept. 1, 1908. Former bids for this work were rejected, the lowest being Campbell Bros., Salt Lake City, Utah, $291,500. Mrs. S. H. Hays is Secy. Bd. of Regents.

*MAYNOOTH, ONT.—Bids are asked until noon, Aug. 15, for building a concrete station and platforms, at Maynooth, for the Central Ontario Ry. Co. Geo. Collins, Mgr., Trenton, Ont.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

BANGOR, ME.—Bids will soon be asked by the Water Board for constructing sedimentation basin at the pumping station; also for laying 1,385 lin. ft. water pipe on the extension of Maple St. Hering & Fuller, 170 Broadway, New York, are Engrs.

*WESTBOROUGH, MASS.—Bids are asked by George S. Adams, Supt. Westborough Insane Hospital, until 11 a. m., Aug. 23, for laying about 3,880 ft. 12-in. c-i. water pipe approximately 9 to 13 ft. deep. J. J. Van Valkenburgh, South Farmingham, Mass., is Engr.

LYNN, MASS.—The Water Board has decided to improve and extend the water-works system. George I. Leland is City Engr.

LESTERSHIRE, N. Y.—The Water Board has awarded contract for drilling well at the water-works to RUSSELL SHEAR.

*NEW YORK, N. Y.—Bids were received by the Board of Water Supply, Thos. Hassett, Secy., on Aug. 6, for constructing main dams for Ashokan Reservoir near Brown's Station, in the Towns of Olive and Marbletown, Ulster County. For estimate of work see advertisement in Engineering News on July 4. MacArthur Bros.-Winston Co., 11 Pine St., $12,669,775; Bradley Construction Co., 329 West 68th St., $13,931,250; John Peirce Co., 90 West St., $10,315,350; Stewart-Kerbaugh-Shanley & Co., 527 Fifth Ave., $13,979,813; O'Rourke Eng. & Construction Co., 345 Fifth Ave., $14,707,750. Itemized prices of the various bids will be given next week under Contract Prices.

CAPE MAY, N. J.—We are officially advised that contract for constructing storm water drainage system for the Cape May Real Estate Co. has been awarded to the ATLANTIC CONSTRUCTION & SUPPLY CO., of Atlantic City, N. J. E. K. Burns is Resident Engr.

*PHILADELPHIA, PA.—Bids are asked until noon, Aug. 29, by the Bureau of Filtration, Dept. Public Works, for (Contract No. 110) electric machinery for Torresdale pumping station; and for (Contract No. 119) sand washer pumps for Torresdale filter plant. George R. Stearns, Director.

PHILADELPHIA, PA.—The Department of Supplies has awarded contract for furnishing iron water pipe to the Bureau of Water to the DONALDSON IRON CO., Betz Bldg., Philadelphia, for about $75,000.

ELKINS, W. VA.—Bids will soon be asked for constructing water-works. Estimated cost, $30,000. George Henry is City Clk.

LONDON, KY.—The London Water-Works Co. has awarded to ALEX. T. WILSON, of Barbourville, the contract to drill wells in East London to supply a system of water-works for the entire town.

MURRAY, KY.—The water-works and electric light systems will be extended.

LOUISVILLE, KY.—Bids are asked until Aug. 12 by W. G. Dearing, Custodian, for sinking deep well and pumping apparatus in the U. S. Post-office and Court House.

Bids are asked by the Board of Public Works until Aug. 20 for furnishing and erecting 29 fire hydrants. Joseph P. Claybrook is Ch. Engr.

ASHLAND, OHIO.—Bids are asked until Aug. 26 by the Board of Trus. of Public Affairs for furnishing and installing water pumping plant at the pumping station, to consist of a high duty horizontal cross compound condensing crank and flywheel steam pumping engine, capacity 1,500,000 U. S. gallons per day of 24 hours, and two 125-HP. each internal furnace boilers, together with boilers, engines, feed pumps and all apparatus necessary to operate the pumps and boilers. A. P. Black is Village Clk.

WARRENSVILLE, OHIO.—Bids are asked by A. R. Callow, Secy. Bd. Pub. Service, Cleveland, Ohio, until noon, Aug. 12, for installing pressure tank water system for the Quadrangle Building of the Cleveland Farm Colony at Warrensville.

CINCINNATI, OHIO.—Bids are asked by the Water-Works Commissioners, Elmer G. Prior, Clk., until noon, Aug. 27, for (A), laying c.-i. pipe and special castings and valves on portions of various streets; (B), furnishing and delivering lime and sulphate of iron for the filtration plant; (C), constructing narrow gage coal and ash handling tracks; laying 8-in. filtered water pipe at the River Pumping station; grading, sodding, constructing driveways, walks, etc., and delivering track material at the main Pumping Station.

GRAND RAPIDS, MICH.—A 10,000,000-gallon pump has been recommended by the Committee on Fire Prevention of the National Board of Fire Underwriters. The Committee adds to its recommendation that if the water supply is not taken from Lake Michigan another pump of the same size should be installed. L. W. Anderson is City Engr.

MARQUETTE, MICH.—The contract to furnish 14,500 ft. of pipe for an extension of the water system has been awarded to the MICHIGAN PIPE CO., of Bay City, at $24,349.

PORT HURON, MICH.—The Water Board has petitioned the Council for an engine for the water-works. W. W. Phelps is City Engr.

MATTOON, ILL.—The Mattoon Water-Works & Reservoir Co. has let contract for constructing trench and laying approximately two miles of 12-in. c.-i. pipe to GOHRING & DUNKEL, of Tuscola, at 33 cts. per ft. J. L. Bennett is Secy.

LOMBARD, ILL.—Bids are asked until Aug. 19 by the Village Board, H. L. Whiteley, Clk., for furnishing and erecting elevated steel tank of 60,000 gallons capacity upon steel tower. W. S. Shields, 1201 Hartford Bldg., Chicago, is Engr.

GENESEO, ILL.—Plans and specifications are being prepared by Alvord & Burdick, 140 Dearborn St., Chicago, Consult. Engrs., for constructing pumping plant with capacity of 400 gallons per minute.

*BLOOMER, WIS.—Contract for constructing water-works system has been let to the LANGSTADT & MEYER CONSTRUCTION CO., Appleton, Wis., for $13,8[illegible]. Oscar Claussen, German-American Bank Bldg., St. Paul, Minn., is Engr.

DAWSON, MINN.—Bids are asked until 8 p. m., Aug. 20, for constructing combined water-works and electric light plant. Estimated cost, $28,000. Oscar Claussen, German-American Bank Bldg., St. Paul, Minn., is Consult. Engr.

COMFREY, MINN.—The Village Council, Oscar Erickson, Pres., has let contract for constructing water-works to the DES MOINES BRIDGE & IRON WORKS, of Des Moines, Iowa, for $7,600.

VIBORG, S. DAK.—Bids are asked by E. C. Nelson, City Audr., until Aug. 12 for constructing tile ditch.

PRINCETON, MO.—Plans and specifications for constructing water-works are being prepared. James D. Darnell and J. J. McShore, of Kansas City, Mo., are Engrs.

PARAGOULD, ARK.—The water-works system will be improved and extended. W. S. Luna is Mayor.

AZTEC, N. MEX.—Bids are asked by the Citizens' Ditch & Irrigating Co., at Aztec, until noon, Aug. 10, for constructing irrigating canal 26 miles long in San Juan County.

FT. BAYARD, N. MEX.—Bids are asked by Capt. S. P. Vestal, Q. M., until 11 a. m., Aug. 10, for extending the water-works system at this post. The work includes laying 875 ft. 4-in. pipe.

PORT TOWNSEND, WASH.—Contract for increasing the supply of water at the intake has been let to JAMES H. COYNE.

*MONTREAL, QUE.—Bids are asked until noon, Sept. 6, for the construction of a reinforced concrete conduit, about 9 ft. in diameter and 27,300 ft. long. George Janin, Supt. and Ch. Engr., W.-Wks.

VICTORIA, B. C.—Bids are asked by Wm. W. Northcott, Pur. Agt., until Sept. 3 for supplying 5,000 ft. of 6-in. and 15,000 ft. of 4-in. cast-iron water pipe.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

*WESTFIELD, MASS.—Five bids were received by the Selectmen on Aug. 3 for constructing about 3,250 lin. ft. 8 to 18-in. pipe sewer, together with manholes and catch-basins. The contract was awarded to H. J. CRANDALL & SON CO., East Boston, Mass., at $3,008. Oren E. Parks is Town Engr.

MILFORD, MASS.—The EASTERN CLAY GOODS CO., 79 Milk St., Boston, has been awarded contract for supplying 13,000 ft. of pipe for construction of the low level sewer. F. A. Barbour, C. E., Tremont Bldg., Boston, showed the specifications for the low level section of sewer to be constructed under the recent appropriation whereby the town authorized the treasurer to sell bonds amounting to $45,000, for the construction of the section.

ATHOL, MASS.—Bids are asked until Aug. 20 by the Sewer Commissioners, Herbert L. Hapgood, Chn., for constructing about 8,500 ft. of sewers.

*HARTFORD, CONN.—Bids were received as follows by the Board of Contract and Supply on July 29 for constructing Section A of Homestead Ave. intercepting sewer system. The work includes about 1,070 lin. ft. of 10-in. concrete conduit and 650 lin. ft. concrete or brick conduit of egg-shaped section 6 × 4 ins. in diameter: Andrew W. Bryne, Boston, $41,998; Russell Contracting Co., New York, $42,111; Hartford Paving & Con. Co., $42,691; F. B. & W. H. O'Neil, $58,770; Charles H. Slocum, $48,407; Eveline Brothers, New Britain, $45,086; Fred. T. Ley & Co., Springfield, $66,044; Falvey & Kelly, Boston, $43,774.

BRIDGEPORT, CONN.—The following contracts have been awarded for constructing sewers: Wilmot Ave. sewer extension, PIERCE MFG. CO., $7.14 per lin. ft.; Linen Ave., B. D. PIERCE, JR., CO., $1.10; Catherine St., PIERCE MFG. CO., $1.10; Main St., B. D. PIERCE, JR., CO., $1.50; Ashley St., BILTZ & CO., $1.25; Maplewood Ave., B. D. PIERCE, JR., CO., $1.10; Hazlewood Ave., BILTZ & CO., $1.10; Stillman St., E. T. DOOLITTLE, $1.10; Laurel Ave., PIERCE MFG. CO., $1.20; Evergreen St., PIERCE MFG. CO., $1.25; Crown St., BILTZ & CO., $1.10. William W. Starr is City Surv.

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., Aug. 14, for constructing sewers, etc., in various streets, Boro. of Brooklyn.

*WILDWOOD, N. J.—Bids are asked by the Street Committee, Evans G. Slaughter, Chn., until noon, Aug. 20, for reconstructing about 12,000 lin. ft. sewers. L. M. Rice is Boro. Engr.

ELIZABETH, N. J.—Bids are asked until Aug. 15 by the City Council for furnishing material and constructing sewers in Second and Fourth Aves., and Christine and John Sts. The work includes about 3,057 lin. ft. 15, 12, 10 and 6-in. pipe, etc. N. K. Thompson is St. Comr.

ASBURY PARK, N. J.—Specifications for constructing about ten miles of 6 to 15-in. pipe sewers, with manholes, flush tanks, etc., and for constructing 1,200 ft. 12-in. w.-i. sewer outlet pipe, extending seaward from tide mark, as advertised, are on file at office of Engineering News, New York. Bids are asked by the Department of Water and Sewers, John L. Coffin, Supt., until Aug. 17.

*BADEN, PA.—Bids are asked by the Town Council until 8 p. m., Aug. 26, for constructing system of sanitary sewers. J. P. Leaf, Boro. Engr., Rochester, Pa.

SCOTTDALE, PA.—We are officially informed that the following bids were received Aug. 1 by A. L. Porter, Boro. Secy., for constructing sewer system, consisting of about 2¼ miles of 8 to 36-in. sewers, using (A), pipe or (B), concrete: John B. Bolt, Greensburg, Pa., $25,944, (B), $25,540; The J. B. Sheets Co., Kelley and Murtland Sts., Pittsburg, Pa., (A) $20,140, (B) $20,247; Thoney Pietro, Indiana, Pa., (A) $26,039; Neelan & Daily, 25 Perrysville Ave., Allegheny, Pa., (A) $26,338, (B) $24,346; Westmoreland Construction Co., Greensburg, Pa., (A) $25,940, (B) $26,479; L. I. Dick, Scottdale, Pa., (A) $23,059, (B) $27,043. J. B. Hogg, Connellsville, Pa., is Boro. Engr.

ALLEGHENY, PA.—Contract for constructing the Woods Run Ave. sewer has been let to T. CRONIN & CO. for $4,302. OTT BROS. received the contract for constructing Ley St. sewer, at $1,189.

GREENVILLE, PA.—Contract for constructing lateral and terminal sewers has been let to F. E. McQUISTON, of Butler, Pa., for $17,986. J. M. Hittle is Boro. Secy.

NEW CASTLE, PA.—The following contracts for constructing sewers have been awarded by the City Council: Harrison St. sanitary sewer, J. L. SOMERS & SON, $2,815. Main sewer extension from Front to Grant Sts., GEORGE WALLER & CO., $14,880. Mahoning Ave. storm sewer, FERRY & CO., $8,141. C. H. Mulholland is City Engr.

WASHINGTON, D. C.—Bids were received as follows July 29 by the District Commissioners for the construction of outlet to the old B St. sewer, Washington, D. C.: (1) ordinary excavation; (2) red brick masonry; (3) concrete masonry "B"; (4) 6-in. pipe under drain: WARREN F. BRENIZER CO., 1418 F St. N. W., Washington, (1) $1.20, (2) $16, (3) $8.50, (4) 30 cts. (awarded contract); R. J. Beall Construction Co., 1217 F St., N. W., Washington, (1) $1.48, (2) $18, (3) $9.60, (4) 35 cts.; E. G. Gummel, 300 Rhode Island Ave., Washington, (1) $2, (2) $20, (3) $10, (4) 50 cts.

The District Commissioners have awarded to JAMES A. COYLE, Washington, contract for the construction of sewers at Chevy Chase, Washington, as follows: Ordinary excavation, 90 cts.; sewer brick masonry, $20; 10-in. pipe sewer, 80 cts.; 12-in. pipe sewer, 90 cts.

*LOUISVILLE, KY.—Bids are asked until noon, Aug. 28, by the Commisisoners of Sewerage, for construction of the Happy Hollow sewer. Harrison P. Eddy, Consult. Engr., 14 Beacon St., Boston.

NAPOLEON, OHIO.—HENNESSEY BROS., Troy, Ohio, have secured contract for laying 600 ft. of 24-in. tile sewer. F. W. Hilgendorff is Village Clk.

CLEVELAND, OHIO.—Bids are asked by the Board of Public Service, A. R. Callow, Secy., until noon, Aug. 13, for constructing sewers in various streets. W. J. Carter is City Engr.

EATON, OHIO.—At a recent election this city voted to issue $125,000 of bonds for a system of storm and sanitary sewers.

DELAWARE, OHIO.—Bids are asked until Aug. 23 for constructing sewage disposal plant for the Girls' Industrial Home.

*EVANSVILLE, IND.—Bids are asked by the Board of Public Works, Walter F. Wunderlich, Clk., until 2 p. m., Aug. 30, for constructing reinforced concrete and brick sewers. James D. Saunder is City Engr.

EVANSVILLE, IND.—Bids are asked by the Board of Public Works until Aug. 13 for construction of main sewer and two local sewers of vitrified pipe from 15 to 10 ins. in diameter. Wm. F. Wunderlick is City Clk. James D. Saunder is City Engr.

GAS CITY, IND.—Bids are asked by Geo. F. Marchal, City Clk., until Aug. 13 for construction of sanitary and storm sewer system in various streets and alleys, about 3.1 miles in length. Estimated cost, $24,000. T. F. Petrie, City Bldg., Marion, Ind., is Engr.

INDIANAPOLIS, IND.—Bids are asked until Aug. 9 by the Department of Public Works, Jos. G. Elliott, Pres., for constructing pipe sewer, from 10 to 15-in., in portions of Market and Davidson Sts. Blaine H. Miller is City Engr.

ECORSE, MICH.—See under Streets and Roads.

LANSING, MICH.—Contract for constructing sewers in Rich Pl. addition has been awarded to M. E. FITZPATRICK, of this city, for $18,950. H. A. Collar is City Engr.

BAY CITY, MICH.—PETER PETERSON, 409 W. Linn Ave., West Side, has secured the contract for constructing two 12-in. socket tile sewers in Blend and Kiesel Sts.

COLLINSVILLE, ILL.—Bids are asked until Aug. 26 by the Board of Local Improvements, J. L. R. Wadsworth, Chn., for constructing sanitary septic sewer system in Dist. No. 1.

WATERTOWN, WIS.—E. L. Bartlett was low bidder for constructing vitrified pipe sewers as follows: 1,600 ft. 20-in. in 12-ft. trench, gravel excavation, ground water to be handled, at $1.90; 320 ft. 18-in., 9-ft. trench, gravel excavation, ground water to be handled, at $1.70; 520 ft. 12-in., 10-ft. trench, gravel excavation, ground water, at 91 cts.; 1,235 ft. 10-in., 8-ft. trench, clay excavation, at 70 cts.; 2,805 ft. 8-in., 8-ft. trench, clay excavation, at 65 cts.; 488 ft. 15-in., 6-ft. trench, clay excavation, at 93 cts.; 136 ft. 12-in., 5-ft. trench, clay excavation, at 88 cts.; 155 ft. 10-in., 5-ft. trench, clay excavation, at 69 cts.; also 60 ft. 20-in. iron sewer, 6-ft. trench, gravel excavation and ground water to be handled, at $8 per ft.; total, $8,711.92; manholes, 9 ft. deep, $30.50; flush-tanks, including flushing apparatus, $70; surface water inlet, sewer pipe, $10; wages of common labor, $2 per day. F. E. Karimski bid $9,001.95. E. B. Parsons is City Engr.

ELGIN, IOWA.—Bids are asked until Aug. 9 for constructing sewers.

WEBSTER CITY, IOWA.—The contract for the construction of the sewer in the Second and Third Wards has been awarded to SULLIVAN & O'CONNOR, at $31,598. The other bids were: Independent Construction Co., $32,185; Parks & Gerber, $33,140; E. L. Brown, $35,923; H. L. Gary, $38,120; H. L. Hossack, $39,787.

STAPLES, MINN.—Bids are asked until 4 p. m., Aug. 15, for about 9,000 ft. of sewers and concrete septic tank. Oscar Claussen, German American Bank Bldg., St. Paul, Minn., is Consult. Engr.

WILMAR, MINN.—Bids are asked until 8 p. m., Aug. 12, for construction of sewers, comprising approximately 2,500 ft. of 12-in. pipe and 1,100 ft. of 8-in. pipe. H. Gunderson is City Clk.

ST. PAUL, MINN.—JOHN LIND, 277 Rondo St., St. Paul, has been awarded contract for constructing sanitary sewer system to be built at the state fair grounds, by the Minnesota State Agricultural Society. C. N. Cosgrove, Secy. Cost, $30,000.

LEWISTOWN, MONT.—Bids are asked by the City Council until 8.30 p. m., Aug. 14, for constructing sewer. M. D. Kimball is City Clk.

WEBSTER GROVES (St. Louis post-office), MO.—Bids are asked until Aug. 19 by L. B. Ripley, City Clk., for constructing district sewers with necessary appurtenances in Sewer Dist. No. 1. The principal items of the work are: 50,800 ft. 9 to 18-in. pipe, 54 flush tanks, septic sewage disposal plant, capacity 70,000 gallons daily. Bids are also asked for constructing sewers in Dist. No. 2. The principal items are as follows: 42,800 ft. 9 to 15-in. pipe, 49 flush tanks, septic sewage disposal plant, capacity 42,000 gallons per day. The R. E. McGrath Surveying Co., 328 Lincoln Trust Bldg., St. Louis, are Engrs.

OAKLAND, CAL.—Bids are asked until Aug. 14 by the Board of Public Works, Walter B. Fawcett, Secy., for furnishing material and constructing concrete and ironstone pipe storm sewer in Canning St. C. W. Cross is City Engr.

STREETS AND ROADS.

(* *denotes that this work is advertised in Engineering News.*)

NASHUA, N. H.—The contract for constructing two miles of State road in Nashua has been awarded to OSGOOD CONSTRUCTION CO., of Nashua.

PEMBROKE, N. H.—Bids are asked by the State Highway Department until 5 p. m., Aug. 19, for constructing about 4,500 ft. gravel road. A. W. Dean, at Concord, is State Engr.

NORTHAMPTON, MASS.—The Highway Commission has let contract to the LANE CONSTRUCTION CO., of Meriden, Conn., for surfacing about 4,600 lin. ft. of state highway in Northampton, for $4,515.

ROCHESTER, N. Y.—The Board of Contract and Supply has awarded paving contracts as follows: Cady St., brick pavement, H. B. HOOKER & SONS, $28,585; Monroe Ave., from Highland Ave., to Culver Road, asphalt, ROCHESTER VULCANITE PAVEMENT CO., $14,946; resurfacing Broadway, H. W. COWLES, $3,530; Adams St., macadam, WILLIAM FULLER, $18,906; Wilson St., brick pavement, F. C. LAUER & SONS CO., $5,884. Edwin A. Fisher is City Engr.

*ALBANY, N. Y.—Bids are asked by Frederick Skene, State Engr., until noon, Sept. 3-4-5, for construction of various state roads. List of roads, and estimated length of each, will be given next week. This contract will be advertised in Engineering News on Aug. 15, 22 and 29.

SYRACUSE, N. Y.—The following bids have been received for paving, sewering and grading Plumb St., from Belden Ave. to Franklin St., with brick or block and sandstone: Fred. J. Baker, Johnsonburg block with sandstone, $15,313, same block with cement curbing, $16,193; Central City Paving Co., Johnsonburg block with sandstone curbing, $16,191, same block with cement curbing, $17,401. Henry C. Allen is City Engr.

MORAVIA, N. Y.—S. P. HULL, of Cortland, has secured the contract for paving Central St., for $11,045.

GENEVA, N. Y.—Bids are asked until 2 p. m., Aug. 15, for grading Roosevelt St., Torrey and Bell Aves. C. T. Church is City Engr.

NEW YORK, N. Y.—Bids are asked by the Dept. of Docks and Ferries, J. A. Bensel, Comr., until noon, Aug. 19, for furnishing and placing riprap stone.

Bids also are asked at the same time for constructing pedestrian approaches to the ferries between West 22d and West 23d Sts., North River, and granite pavement between West 13th and West 14th Sts., North River, on the Chelsea Section, Boro. of Manhattan.

ALBANY, N. Y.—The following bids were received July 29 by the Board of Contract and Supply, Isidore Wachsman, Clk., for paving and improving Myrtle Ave.: Edward F. Dillon, Albany, Shawmut block, $6,755; PETER H. REYNOLDS, Albany, Park and Brad block, $6,621; Mulderry Bros., Albany, Johnsonburg block, $5,698. Walter Melius is City Engr.

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., Aug. 21, for regulating, paving, etc., portions of various streets, Boro. of Brooklyn.

*WOODCLIFF, N. J.—Bids are asked by the Borough Council until 8 p. m., Aug. 20, for macadamizing portion of Mill Road and Pascack Road, Woodcliff Heights Road and Glen Road, a distance of 12,849 ft. H. G. Hering, Jr., is Boro. Engr.

*WILDWOOD, N. J.—Bids are asked by the Street Commission, Evans G. Slaughter, Chn., until noon, Aug. 20, for laying about 40,000 sq. yds. macadam pavements, curbs, etc. L. M. Rice is Boro. Engr.

SALEM, N. J.—The contract for constructing the Alloway and Aldine Road has been awarded to SUTTON & CORSON, at $10,320.

ELIZABETH, N. J.—Bids are asked until Aug. 15 by the City Council for paving Court St. and Waverly Pl. and flagging 7th St. The work includes 3,230 sq. yds. trap block pavement, 1,480 sq. yds. telford pavement, 1,720 lin. ft. new flag, 2,340 lin. ft. new curb, 1,390 sq. yds. trap block gutters, etc. Wm. H. Luster is City Surv.

HOBOKEN, N. J.—Bids are asked by the City Council until 8 p. m., Aug. 28, for repaving portions of Third and Grand Sts. James H. Londrigan is City Clk.

*ETNA, N. J.—Bids are asked until 8 p. m., Aug. 23, for building a macadam road in Etna Borough. H. G. Hering, Boro. Engr., Hillsdale, N. J. Charles J. Miller, Mayor.

CLARION, PA.—JOHNSON & HASTINGS have been awarded contract to lay 17,000 sq. yds. of buff brick on 8-in. of stone and 1½ ins. of sand, excavate 6,200 cu. yds. for $34,162, including setting 9,096 ft. of sandstone line curbs at 60 cts., and 815 ft. of cross curb at 50 cts. Bids were also received as follows: McGuire & Coates, $35,223; Frank J. Dixon & Bro., $37,064; Rosser & Maloney, $43,375. G. G. Sloan is Boro. Clerk.

ALLEGHENY, PA.—Contract for laying flagstone sidewalks on Woods Run Ave. has been let to A. V. PURNEL, at $17,780. ORR BROS. have received the contract, at $1,266, for laying cement sidewalks on Massachusetts Ave. John Swan, Jr., is Dir. Dept. Pub. Wks.

ELKINS, W. VA.—The ENTERPRISE CONSTRUCTION CO., of this city, has been awarded contract for laying about 5,600 sq. yds. pavement. W. L. NEALIS secured the contract for laying concrete curb in connection with the paving. George Henry is City Clk.

JACKSONVILLE, FLA.—Bids are asked by the Board of Public Works until 2.30 p. m., Aug. 26, for paving with brick Adams St., from Stuart St. to Myrtle Ave. The work includes grading about 6,060 sq. yds., laying 2,576 lin. ft. stone curbing, paving, etc. Philip Prioleau is City Engr.

The GEORGIA ENGINEERING CO., Frank R. Clark, Pres., Augusta, Ga., has secured contract at $1.55 per sq. yd. for paving Florida Ave., and D. M. BAKER, at $1.59½ per sq. yd., for paving portion of Forsyth St.

SELMA, ALA.—Bids will soon be asked for paving. J. Smith, of Selma, is Engr.

FT. ST. PHILIP (Buras post-office), LA.—Bids are asked until Aug. 21 by Capt. B. T. Clayton, Q. M., New Orleans, for constructing roads, drains and sidewalks at Ft. St. Philip.

COLROSS, KY.—Bids are being received by J. W. Mizner for constructing 1¼ miles of turnpike.

TOLEDO, OHIO.—Bids are asked by the Board of County Commissioners until 10 a. m., Aug. 19, for grading, draining and macadamizing. D. T. Davies, Jr., is County Audr.

LAKEWOOD (Cleveland post-office), OHIO.—Bids are asked by B. M. Cook, Village Clk., until 11 a. m., Aug. 9, for laying sidewalks on various streets. Wm. H. Evers, Engineering Co., 237 The Arcade, Cleveland, are Engrs.

BRIDGEPORT, OHIO.—Bids are asked by W. W. Baggs, Village Clk., until noon, Aug. 10, for paving, curbing, etc., portions of various streets.

TOLEDO, OHIO.—Bids are asked by the Board of County Commissioners until 10 a. m., Aug. 14, for improving portion of Phillips Ave. D. T. Davies, Jr., is County Audr.

CINCINNATI, OHIO.—The following bids were received Aug. 2 by the Board of County Commissioners, Fred. Driehs, Clk., for improving New Richmond Pike: A. J. Henkel & Bros., 703 Mercantile Library Bldg., Cincinnati, $39,012; M. Sullivan & Sons, 703 Mercantile Library Bldg., Cincinnati, $36,991; Kirchner Construction Co., Eighth and Plum Sts., Cincinnati, $37,210; Louis Drach Construction Co., 26 Guarantee Title & Trust Bldg., Cincinnati, $40,775; Charles Clockenbrink, 241 Setchel Ave., Cincinnati, $38,704; J. M. Hassett & Co., Sharonville, Ohio, $51,214, and Henry F. Nagel, Cherry Grove, Ohio, $34,002. Clinton Cowen is County Surv.

The following bids were received at the same time for improving Muddy Creek Pike: M. Sullivan & Sons, 703 Mercantile Library Bldg., Cincinnati, $12,806; Louis Drach Construction Co., $11,754; John Nicholson & Bro., 1611 First National Bank Bldg., Cincinnati, $11,549, and John Ruebel & Bro., 56 Atlas Bank Bldg., Cincinnati, $12,592.

BLUFFTON, IND.—Bids are asked by the Common Council until 7.30 p. m., Aug. 9, for laying cement combined curbs and 4½-ft. sidewalks on portion of West Central Ave. Frank S. Smith is City Clk.

SOUTH BEND, IND.—Bids are asked by the Board of Public Works, W. A. Mclery, Chn., until 10 a. m., Aug. 13, for paving, curbing, etc., portions of various streets. Alonzo J. Hammond is City Engr.

TERRE HAUTE, IND.—The Board of Public Works has let contract to the MERIDITH CONSTRUCTION CO., at $7,090, for improvement of Kent Ave., from Wabash to Liberty Aves. Herbert Briggs is Secy. Edgar Schmidt is City Engr.

RICHMOND, IND.—Bids are asked until Aug. 9 for constructing street approaches for Northwest Second St. subway railroad crossing. Fred. R. Charles is City Engr.

COVINGTON, IND.—Bids are asked by the County Commissioners until 1.30 p. m., Aug. 16, for construction of Glascock gravel road, 11,820 ft. in length. Wm. B. Gray is County Audr.

INDIANAPOLIS, IND.—Bids are asked until Aug. 9 by the Board of Public Works, Jos. T. Elliott, Pres., for paving with creosoted wooden blocks portions of Meridian, St. Clair and Sixth Sts. Blaine H. Miller is City Engr.

TERRE HAUTE, IND.—Bids are asked by the County Commissioners until 11 a. m., Aug. 17, for construction of 4,730 ft. of gravel road in Otter Creek Township. Jerome W. Denehie is County Audr.

BEDFORD, IND.—Bids are asked by the County Commissioners until 1 p. m., Aug. 17, for construction of 8,217 ft. of macadamized road. W. G. Owens is County Audr.

MUSKEGON, MICH.—Bids are asked by P. P. Misner, Recorder, until noon, Aug. 12, for paving portion of Western Ave.

DETROIT, MICH.—Bids are asked until Aug. 12 by the Department of Parks and Boulevards, Philip Breitmeyer, Comr., for resurfacing Lafayette Boulevard with creosoted block and constructing brick roadway on Northern Grand Boulevard; also furnishing Kentucky rock asphalt and trap rock, rip-rap size, as may be required. Robert H. McCormick is City Engr.

HUDSON, MICH.—The contract for laying about 12,000 sq. yds. pavement has been awarded to McKINNEY BROS., of Toledo, Ohio, for $23,500. Fred. P. George is City Clk.

SCOTTVILLE, MICH.—Bids are asked until Aug. 10 by W. C. Freedy, City Clk., for furnishing material, grading, guttering and macadamizing portion of Main St. The work includes about 2,100 cu. yds. earth excavation, 1,775 sq. yds. cobble stone gutters, 4,428 sq. yds. of macadam paving, and about 6 M. ft. temporary hemlock curbing.

ECORSE, MICH.—Bids are asked until Aug. 13 by Richd. C. Montie, Village Clk., for paving and sewering River Road. Geo. Jerome, 1102 Majestic Bldg., Detroit, is Village Engr.

EAST ST. LOUIS, ILL.—We are officially advised that the following bids were received July 30 for paving, etc., portion of 24th St.: W. H. Hill, $7,190; Walter Coonan, $6,911; J. & P. Keeley, $6,998; Geisel Construction Co., $7,180, and McCabe & Co., $6,998. W. J. Crocken is City Engr.

*BUSHNELL, ILL.—Bids are asked by the Board of Local Improvements, W. H. Dawson, Secy., for paving Crafford and Hurst Sts. with vitrified brick and laying stone curb. The work includes 4,048 cu. yds. excavation, 6,128 lin. ft. curb and 9,497 sq. yds. paving.

CHICAGO, ILL.—JOSEPH HANRATTY has been awarded the contract, at $96,531, for paving the School St. system.

FREEPORT, ILL.—The Board of Local Improvements have received the following bids for paving portions of Walnut, Ringold, Pleasant and Empire Sts. and Galena Ave. with brick: WILLIAM ASCHER, $48,200 (awarded contract); M. Ford, Cedar Rapids, Puritan brick, $50,870, Streator brick, $47,926; J. W. Stuart, Freeport, $53,010, and Keys & McNamara, La Salle, $53,891. G. W. Graham is City Engr.

BEARDSTOWN, ILL.—Bids are asked by A. G. Smith, City Clk., until Sept. 3, for laying 38,460 sq. yds. brick pavement on concrete base. Estimated cost, $81,528. C. W. Brown, of Jacksonville, is Engr.

CAIRO, ILL.—Bids are asked by the Board of Local Improvements until Aug. 15 for laying 51,646 sq. yds. brick pavement on Washington Ave. Wilbur B. Thistlewood is City Engr.

MILWAUKEE, WIS.—The Board of Public Works has awarded to the MILWAUKEE CONCRETE & SIDEWALK CO., 367 Grand Ave., the contract to remove all defective sidewalks in the 16th Ward, and replace them with cement sidewalks at 11.9 cts. per sq. ft. Charles G. Poetsch is City Engr.

WATERTOWN, WIS.—Bids are asked by the Board of Public Works until 10 a. m., Aug. 24, for grading portions of Dewey Ave. and Division St. Gustav Glaser is St. Comr., Bd. Pub. Wks. E. B. Parsons is City Engr.

CEDAR RAPIDS, IOWA.—Bids are asked by J. M. Ingold, Secy. Board of Education, Carnegie Library Bldg., until 8 p. m., Aug. 12, for construction of 1,000 lin. ft. of cement curbing and 2,500 sq. ft. of cement sidewalk at the Van Buren and Harrison schools. S. M. Hall is Chn.

CLINTON, IOWA.—Bids are asked until Aug. 13 for constructing cement concrete walks on North Second St. The work includes 2,000 cu. yds. grading, 2,430 lin. ft. curb, 38 yds. wall and 30,800 sq. ft. of walk. Charles P. Chase is Engr.

MANHATTAN, KAN.—ANDERSON & WALTERS have been awarded the contract for laying 10,000 lin. ft. of curbing. H. W. Hungerford is City Clk.

MARSHFIELD, MO.—Bids are asked until Aug. 30 by W. P. McKnight, City Clk., for laying about 98,000 ft. of macadam pavement and 7,200 ft. of stone guttering.

PINE BLUFF, ARK.—SHELBY & PETTY have secured contract for laying about 14 blocks of vitrified brick pavement at about $35,000. Wm. J. Parker is City Engr.

MARSHALL, TEX.—Bids are asked until Aug. 14 by H. S. Rice, City Secy., for constructing about 22 miles of concrete sidewalks and street crossings.

OLYMPIA, WASH.—Bids are asked by the State Highway Board, Joseph M. Snow, Secy., until 2 p. m., Aug. 16, for grading, etc., portion of state road No. 3.

ABERDEEN, WASH.—Bids are asked by the City Council until 5 p. m., Aug. 21, for paving, grading, etc., portions of various streets. P. F. Clark is City Clk. H. W. Troutman is City Engr.

PORTLAND, ORE.—Bids for paving portions of the following streets have been received as follows: Leo Ave., Keenan Bros., $3,358; 15th St., Star Sand Co., $3,420; Lexington Ave., Keenan Bros., $2,820; *East Washington St., Pacific Bridge Co., $13,661; East 21st St., Warren Construction Co., $4,328; Marshall St., Warren Construction Co., $1,801; East 23d St., Warren Construction Co., $3,730; East 23d St., Barber Asphalt Paving Co., $12,591, and James Frainey & Co., $11,591; East 21st St., Barber Asphalt Paving Co., $3,701, and James Frainey &

Co., $2,370; East 18th St., Barber Asphalt Paving Co., $3,573, and James Frainey & Co., $3,401; East 18th St., Barber Asphalt Paving Co., $3,611, and James Frainey & Co., $2,592; East 19th St., Pacific Bridge Co., $10,849, and Warren Construction Co., $11,516; East 18th St., Pacific Bridge Co., $6,611, and Warren Construction Co., $7,301; Killingsworth Ave., Pacific Bridge Co., $73,304; East 20th Ave., Pacific Bridge Co., $1,077; East 19th St., James Frainey & Co., $4,097, and Barber Asphalt Paving Co., $4,997. Douglas W. Taylor is City Engr.

WEST SEASIDE (Seaside post-office), ORE.—Contract for constructing the boulevard and walk along the ocean beach has been awarded to J. F. DAVIES, of Seaside, for $6,980.

WHIPPLE BARRACKS (Prescott post-office), ARIZ.—Bids are asked until Aug. 24 by Capt. Chas. C. Walcutt, Jr., Prescott, for constructing roads and walks at Whipple Barracks.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

WORCESTER, MASS. — The American Steel & Iron Wire Co. will construct a steel rod mill, which will cost between $50,000 and $60,000. The building will be 264 ft. long and 140 ft. wide, and will be constructed of steel and brick. There will be begun at about the same time with the new rod mill altering one of the buildings for a paper saturating mill, the change to cost $14,000. The building is to be 90 × 38 ft.

CLINTON, MASS.—J. W. BISHOP & CO., of Worcester, have secured the contract to erect mill on Union St. for the Bigelow Carpet Co., at about $300,000.

PITTSFIELD, MASS.—The General Electric Co., Pittsfield Works, has let contract for building a foundry building 365 × 150 ft. as follows: Mason and carpenter work to BECKWITH & PIKE, Pittsfield, and structural steel work to McCLINTIC-MARSHALL CONSTRUCTION CO., of New York and Pittsburg.

PAINTED POST, N. Y.—The Ingersoll-Rand Co., it is reported, contemplates making improvements to its plant. Estimated cost, $60,000.

SIDNEY, N. Y.—Plans have arrived for the proposed silk mill to be constructed for Julius Kayser & Co., and bids will be received soon for construction. The building will be 192 ft. long. It is stated that 80 ft. of the building will be two stories high and the remaining 112 ft. will be one story high, with a skylight. Bids will be received for the furnishing of the concrete, brick and wood material. Edwin S. Bayer is Local Representative.

LAWRENCE, PA.—The Pennsylvania R. R. Co. will build a 26-stall engine house, small machine shop and power plant at Lawrence Junction, plans for which are now being prepared. T. N. Ely, Philadelphia, is Ch. of Motive Power.

NEW CASTLE, PA.—Plans and specifications are being prepared for construction of a new round house and power plant at New Castle, of the Pennsylvania Lines West of Pittsburg. Estimated cost of the round house and power plant is $250,000. Thomas Rodd is Ch. Engr., Pittsburg.

MARTINSBURG, W. VA.—The Stewart Vehicle Co. will erect additional shop, 40 × 140 ft.

CARY, N. C.—The Wilkinson Lumber Co., recently incorporated, will erect planing mill 50 × 124 ft., with kilns and other buildings. Material and machinery partly contracted for. Product, rough and dressed lumber, 15,000 to 20,000 ft. per day. T. F. Wilkinson is Secy., Treas. and Gen. Mgr.

STATESVILLE, N. C.—Paolo Cotton Mills has awarded contract to T. C. THOMPSON & BROS., of Birmingham, Ala., for erection of mill buildings for proposed 5,000-spindle mill. Eugene Morrison is Pres.

ABBEVILLE, S. C.—The Abbeville Ice, Laundry & Fuel Co. will build ice plant with daily output of 10 to 15 tons and a steam laundry. Machinery has not been purchased. Address Geo. M. Beasley.

SAVANNAH, GA.—The Central of Georgia Ry. Co. has let contract for building car shops to the McKENZIE-DE LEON CONSTRUCTION CO., of Savannah. J. E. Tussey, Savannah, Ga., is Supt. Bridges and Bldgs.

TOCCOA, GA.—Toccoa Ice & Coal Co. has been incorporated with capital stock of $12,000, it is reported, and will build ice plant with capacity of twelve tons per 24 hours. The building will be constructed of concrete blocks, 40 × 80 ft. Buildings and equipment will cost $12,000. No contracts have been awarded. C. H. Dance is Mgr.

BOWLING GREEN, FLA.—The Virginia Carolina Chemical Co., Richmond, Va., has awarded contract for erection of sawmill and phosphate plant near Bowling Green to McAULAY & SONS.

MOBILE, ALA.—The Star Fish & Oyster Co., incorporated with $100,000 capital stock to deal in fish, oysters, crabs, turtles, and all sea foods, will erect frame building 143 × 127 ft., for ice and cold storage, to have capacity of 25 tons ice. Cost, with equipment, $52,000. S. Gonzales is Pres.; J. E. Perez is Vice-Pres.; A. A. Perez is Secy. and Treas.; S. Moll, Box 26, is Arch.; John Remy is Engr.

Willis A. Bigers has prepared plans for erection of carriage manufacturing building 85 × 125 ft.; two stories; brick stuccoed; mill construction. Structure will be equipped by the NACK CARRIAGE & MANUFACTURING CO.

CROWLEY, LA.—Alexander Mouton, of Lafayette, La., plans to establish syrup mill. A frame building, 100 ft. sq., one-fourth of this to be one-story high, and shed 40 × 75 ft., will be erected. Cost, with equipment, $30,000. Machinery will include three return tubular boilers, 72 × 18 ins., to consume bagasse, coal or oil; 3-roller mill, 30-in. diameter, 60 ins. long; 18 × 42-in. heavy-duty Corliss engine, etc.

MEMPHIS, TENN.—The plant to be erected by the Merchants' Cotton Press & Storage Co. and leased to Gulf Compress Co., will have two high density compress machines. It is stated that the plant is to be 300 ft. wide and 1,280 ft. long, divided into four compartments by 18-in. walls, with parapets extending 5 ft. above roof; boiler-house and coal bins will be depressed below level of floor so that coal can be unloaded from bottom dump cars directly in front of fire doors; the roof to be of sawtooth type; sheds to be 24 ft. high in the center and 16 ft. at eaves; plant to be equipped with automatic dry pipe sprinklers, water being supplied from city mains and from 100,000-gallon tank on tower 100 ft. high. Building and machinery will cost approximately $300,000. Plans furnished by engineering department of Gulf Compress Co. and building being constructed by constructing department of Gulf Compress Co. Capacity for uncompressed cotton standing on end, 30,000 bales; two compress machines have capacity for 4,000 bales in 24 hours. The building will be equipped with electric light plant, telephones and storage battery trucks. J. R. Fordyce is Engr.

The Memphis Can Manufacturing Co. has been incorporated with capital stock of $100,000 to build plant for manufacturing all kinds of tin cans. Buildings to occupy space 100 × 200 ft., and cost, with equipment, about $30,000. Automatic machinery, operated by electricity, will be installed. Incorporators: W. W. Simmons, I. F. Peters, Emil Nathan, C. W. Thompson and W. A. McClure. Last-named is principal, and can be addressed care of I. F. Peters, Secy. of Industrial League, Memphis, or care of Houston Can Manufacturing Co., Houston, Tex.

The plant of the Memphis Cotton Oil Co., in New South Memphis, which was recently badly damaged by fire, it is reported, is to be rebuilt.

TIPPECANOE CITY, OHIO.—Plans are being prepared for the erection of a $15,000 2-story factory building at Tippecanoe City for the Tippecanoe Underwear Co. E. C. Gerber, Dayton, Ohio, is Arch.

BOONVILLE, IND.—The American Society of Equity, Gurley Taylor, Pres., is reported to have ordered plans for the erection of a steel construction grain elevator in this city. Estimated cost, $30,000.

MATTHEWS, IND.—Bids will soon be asked by the Matthews Steel & Casting Co. for erection of a steel casting plant on the site of the plant recently destroyed by fire.

BLOOMFIELD, IND.—The Leader Jack Co. has incorporated to build and equip factory for manufacture of machinery. M. R. Green, M. C. Davis and C. O. Yohn are Directors.

BRAZIL, IND.—The Brazil Wire Fence Co. will equip and operate plant for manufacture of fence material and fence machinery. Richard H. Morrish is Mgr.

PERU, IND.—The Peru Chemical Gas Co. has incorporated to construct and equip an artificial gas plant. J. O. Cole, Wm. Hart and J. T. Armitage are Directors.

EVANSVILLE, IND.—The Haltz Co. has incorporated to build and equip factory and foundry to manufacture steam engines, steam pumps and mills of various kinds. Ferdinand Haltz is Pres.

BATTLE CREEK, MICH.—M. J. Morehouse, of Chicago, Ill., has prepared plans for building to be erected for the Toasted Corn Flakes Co. Cost, $90,000. Equipment to cost $60,000 additional.

CHICAGO, ILL.—Treat & Ahlschuler, Archs., 277 Dearborn St., have let general contract for constructing a factory building at Washington and Desplaines Sts., for the Brown-Sharpe Co., 16 South Clinton St., to WILLIAM ADAMS, 145 La Salle St. Building to be eight stories high, 79 × 90 ft., built of brick and concrete, and will cost $150,000.

MILWAUKEE, WIS.—The York Ice Machine Co., New York, has prepared plans for constructing ice and refrigerating plant for the People's Pure Ice Co., Milwaukee. Cost, $200,000.

VIRGINIA, MINN.—J. J. Wagenstein, of Duluth, is preparing plans and specifications for the Virginia Machine & Foundry Co. for a building 130 × 40 ft., which will be used for a foundry, machine and blacksmith shop. The boiler room will be 25 × 32 ft.

MOUNT OLIVE, ARK.—The Mount Olive Stave Co. will erect a plant for manufacturing tight-barrel staves. The dry-kiln will be 44 × 155 ft., engine-room 25 × 58 ft., machinery room 45 × 100 ft. All buildings will be built of wood and iron. Cost of plant, $19,000. G. W. Walbert is Pres.; William D. Long, Vice-Pres.; T. J. Walbert, Secy.-Treas.; Z. E. Moon, Arch., all of Batesville, Ark.

HOUSTON, TEX.—R. B. Crawford, of the Crawford Automobile Co., will double capacity of automobile factory by the erection of two buildings, one for manufacturing bodies and the other to be used as machinery and tool room.

It is reported that a $500,000 cotton mill for the manufacture of cotton cloth is to be erected at Houston by the Oriental Textile Co. This firm manufactures camel's hair press cloth. A. P. Root, John S. Bradford and S. D. Allen are interested.

MONTESANO, WASH.—The Sunset Shingle Co. has incorporated with capital of $25,000, and will construct shingle mill with a capacity of 150,000 daily.

PORTLAND, ORE.—H. W. Mitchell, of Seattle, will build box factory on Fifth St. near Clay St.

WINNIPEG, MAN.—The Canadian Northern R. R. Co. has let contract to KELLY BROS. & MITCHELL for construction of erecting shop. Cost, $200,000. M. H. McLeod is Gen. Mgr.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*BARGE CANAL.—Albany, N. Y.—Only one bid was received by F. C. Stevens, Supt. Public Works, Albany, on July 31 for Barge Canal Contract No. 12, which is for the excavation of the canal, protection of its sides, construction of Lock No. 23 and appertaining structures; bridges, abutments and bridge approaches and other incidental details, between deep water at west end of Oneida Lake, Sta. 2720, and Mosquito Point Bridge over the Seneca River at the east end of Contract No. 5, Sta. 5074. Length of contract, 43.73 miles. The bid was that of (B) Stewart, Kerbaugh, Shanley & Co., 527 Fifth Ave., New York, at $3,391,716; engineer's estimate, (A) $3,082,560. Itemized prices of the bids are as follows:

	(A)	(B)
Clearing, lump sum	$8,000.00	$8,800.00
12,200 cu. yds. grubbing	.30	.32
1,190,000 cu. yds. all excavation in Div. No. 1	.90	1.00
700,000 cu. yds. all excavation in Div. No. 2	.51	.56
1,930,000 cu. yds. all excavation in Div. No. 3	.35	.38
3,270,000 cu. yds. all excavation in Div. No. 4	.41	.45
50 M. B. M. sheeting and bracing per M. B. M.	50.00	55.00
122,000 cu. yds. forming embankment	.15	.16
2,100 cu. yds. lining	1.50	1.65
690 M. B. M. sawed lumber (yellow pine or Douglas fir)	55.00	60.50
4 M. B. M. white oak lumber in miter sills and gates	100.00	110.00
86 M. B. M. sawed lumber (white oak)	80.00	88.00
16 M. B. M. sawed lumber (creosoted yellow pine or Douglas fir)	100.00	110.00
51,500 lin. ft. round timber in cribs	.15	.16
5,600 cu. yds. stone filling in cribs	1.50	1.65
175 foundation piles, 12′ long, each	3.00	3.30
100 foundation piles 20′ long, each	5.00	5.50
37 mooring piles 16′ long, each	4.00	4.40
85 mooring piles 25′ long, each	7.00	7.70
3,140 docking piles 25′ long, each	6.25	6.875
28,000 cu. yds. second-class concrete	6.50	7.15
700 cu. yds. reinforced concrete	10.00	11.00
10 cu. yds. first-class masonry bridge coping	30.00	33.00
30,000 cu. yds. wash wall	2.50	2.75
120 sq. yds. cobblestone paving	.75	.825
440 cu. yds. third-class riprap	2.50	2.75
664,000 lbs. structural steel	.05	.055
185,000 lbs. metal in lock gates	.07	.077
80,000 lbs. metal in needle dams	.08	.088
26,000 lbs. metal in lock valves	.12	.132
98,500 lbs. metal reinforcement	.04	.044
35,200 lbs. iron castings, plain	.03½	.038
22,500 lbs. iron castings, machined	.08	.088
3,000 lin. ft. wooden fence	.20	.22
240 fender fastenings, each	3.00	3.30
Removing old tree dam at Oak Orchard, lump sum	1,000.00	1,100.00
Raising bridge superstructure, lump sum	1,000.00	1,100.00
Maintaining highway traffic, lump sum	6,000.00	6,600.00
Deduct price to be paid to the State of New York for buildings in place, lump sum	3,000.00	2,700.00
Deduct price to be paid to the State of New York for bridge superstructures removed, lump sum	1,500.00	1,350.00
Total	$3,082,560	$3,391,716

Bids received for Barge Canal Contract No. 14, which is for dredging a channel in the Mohawk River between the west end of Contract No. 11, Station 305, and a point near upper Mohawk aqueduct, at Rexford Flats, Station 1046; for constructing Dam No. 2 below Crescent aqueduct, Station 305; Dam No. 3 and Lock No. 7, above Vischer's Ferry, Station 839; Dam No. 9 and Lock No. 13, at Yosts, Station 2954; Dam No. 10 and Lock No. 14, at Canajoharie, Station 3370; Dam No. 11 and Lock No. 15, at Fort Plain, Station 3554; retaining dam at Mindenville, Station 3865; highway changes; culverts and incidental work appertaining thereto. Length of contract, 15 miles. Bids were received as follows: (1) Engineer's estimate, $2,875,570; (2) The Scofield Co., Pennsylvania Bldg., Philadelphia, Pa., $3,357,776; (3) Arthur W. Luce, 100 Broadway, New York, $2,935,763; (4) Stewart, Kerbaugh, Shanley & Co., 527 Fifth Ave., New York, $3,163,137. Bids in detail are as follows:

	(1)	(2)	(3)	(4)
Clearing, lump sum	$100.00	$100.00	$100.00	$110.00
3,000 cu. yds. grubbing	.30	.80	.34	.33
810,000 cu. yds. all excavation	.64	.90	.735	.704
150 M. B. M. sheeting and bracing, per M. B. M.	50.00	60.00	50.00	55.00
174,000 cu. yds. forming embankment, 1st class	.15	.18	.17	.16
31,000 cu. yds. forming embankment, 2d class	.10	.12	.11	.11
1,300 cu. yds. lining	1.50	1.60	1.70	1.65
212 cu. yds. puddle	1.80	1.80	1.70	1.65
158 M. B. M. sawed lumber (yellow pine or Douglas fir)	55.00	65.00	55.00	60.50
400 M. B. M. sawed lumber (hemlock)	40.00	46.00	40.00	44.00
23 M. B. M. white oak lumber in miter sills and gates	100.00	101.00	100.00	110.00
75 M. B. M. sawed lumber (white oak)	80.00	90.00	80.00	88.00
62 M. B. M. sawed lumber (creosoted yellow pine or Douglas fir)	100.00	120.00	100.00	110.00
27,000 lin. ft. round timber in cribs	.15	.18	.15	.165
10,300 cu. yds. stone filling in cribs	1.50	1.70	1.50	1.65
70 foundation piles 10′ long, each	4.00	4.50	4.40	4.40
70 foundation piles 12′ long, each	4.60	5.00	5.00	5.00
1,500 foundation piles 14′ long, each	5.10	6.00	5.60	5.61
3,401 foundation piles 16′ long, each	5.40	6.50	6.00	5.94
84 foundation piles 20′ long, each	5.65	6.70	6.15	6.215
40 mooring piles 20′ long, each	5.00	6.00	5.50	5.50
200 M. B. M. wooden sheet piling	50.00	60.00	50.00	55.00
21,000 cu. yds. first-class concrete	8.00	9.00	8.00	8.80
210,000 cu. yds. second-class concrete	7.50	8.50	7.50	8.25
1,250 cu. yds. third-class concrete	6.50	7.50	6.50	7.15
55 cu. yds. reinforced concrete	10.00	11.00	11.40	11.00
3,300 cu. yds. wash wall	2.50	2.80	2.50	2.75
3,720 sq. yds. second-class stone paving	1.50	1.70	1.50	1.65
460 sq. yds. third-class stone paving	1.50	1.70	1.50	1.65
200 sq. yds. cobblestone paving	.75	.80	.75	.825
2,500 cu. yds. ballast	1.50	1.70	1.50	1.65
2,600 cu. yds. first-class riprap	3.00	3.50	3.00	3.30
15,400 cu. yds. second-class riprap	3.00	3.00	3.00	3.30
900 cu. yds. third-class riprap	2.50	3.00	2.85	2.75
8,400 cu. yds. fourth-class riprap	2.50	2.80	2.50	2.75
200 cu. yds. 24″ vitrified pipe, laid	2.00	2.00	2.00	2.20
2,427,000 lbs. structural steel	.05	.045	.04	.055
580,000 lbs. metal in uprights for dams	.06	.05	.06	.066
830,000 lbs. metal in gates for dams	.07½	.085	.075	.082
810,000 lbs. metal in lock gates	.07	.08	.07	.077
330,000 lbs. metal in needle dams	.06	.06	.06	.066
128,000 lbs. metal in lock valves	.12	.14	.12	.132
280,000 lbs. metal in head gates	.10	.10	.10	.11
133,000 lbs. metal reinforcement	.04	.045	.04	.044
7,000 lbs. steel castings	.05	.10	.05	.055
163,000 lbs. iron castings, plain	.03½	.045	.035	.038
55,000 lbs. iron castings, machined	.06	.07	.06	.066
86,000 lbs. cast-iron shoes for uprights	.05	.06	.05	.055
1,000 lin. ft. wooden fence	.20	.20	.20	.22
870 fender fastenings, each	3.00	3.20	3.00	3.30
2 24″ × 36″ sluice gates with hoists and standards, each	200.00	230.00	200.00	220.00
135,000 lbs. wrought-iron chain	.06	.075	.06	.066
4,030 lin. ft. wrought-iron pipe railing	1.00	1.00	1.00	1.10
Deduct price to be paid to the State of New York for buildings in place which are to be removed by the contractor, lump sum	100.00	100.00	100.00	100.00
Total	$2,875,570	$3,357,776	$2,935,763	$3,163,137

(Continued from page 46.)

Bids received for **Barge Canal Contract No. 35**, which is for excavating the canal and protecting its sides; constructing Locks Nos. 7 and 8; bulkheads; culverts; spillways and incidental details between 0.56 of a mile above Utica St. bridge, Station 1164 + 00, and the harbor line north of Bridge St. bridge, Station 1208 + 85, at Oswego, N. Y. Length of contract, 0.85 of a mile. Bids are as follows: Engineer's estimate, (X) $752,760; (Y) Stewart Kerbaugh, Shanley & Co., 527 Fifth Ave., New York, $865,689; (Z) Gilmour-Horton-Allen Co., Sandy Hill, N. Y., $739,261. The itemized prices of the bids are as follows:

	(X)	(Y)	(Z)
206,000 cu. yds. all excavation	$1.00	$1.15	$1.145
100 M. B. M. sheeting and bracing, per M. B. M.	50.00	57.50	45.00
11,000 cu. yds. forming embankment	.15	.1725	.125
320 cu. yds. lining	1.50	1.725	1.00
500 cu. yds. puddle	2.00	2.30	2.20
11 M. B. M. sawed lumber (yellow pine or Douglas fir)	55.00	63.25	52.00
6 M. B. M. sawed lumber (spruce)	55.00	63.25	52.00
5 M. B. M. white oak lumber in miter sills & gates	100.00	115.00	95.00
45 M. B. M. sawed lumber (white oak)	80.00	92.00	76.00
12 M. B. M. sawed lumber (creosoted yellow pine or Douglas fir)	100.00	115.00	95.00
51,000 cu. yds. second-class concrete	8.00	9.20	7.20
2,700 cu. yds. reinforced concrete	10.00	11.50	9.20
15 cu. yds. first-class masonry	30.00	34.50	25.00
4 cu. yds. 1st-class masonry bridge coping	30.00	34.50	32.00
650 cu. yds. laying masonry	10.00	11.50	11.00
3,400 lin. ft. pointing old masonry	.05	.0575	.05
90 sq. yds. cobblestone paving	1.00	1.15	.90
30 cu. yds. ballast	1.50	1.725	1.25
90 cu. yds. fourth-class riprap	2.00	2.30	1.75
6,960 lbs. 4" wrought-iron pipe and specials	.10	.115	.10
880 lbs. 5" wrought-iron pipe and specials	.10	.115	.10
2 2" pipe valves, each	4.50	5.175	4.50
8 4" pipe valves, each	10.00	11.50	10.00
2 12" pipe valves, complete, each	40.00	46.00	40.00
2 20" pipe valves, complete, each	115.00	132.25	115.00
4 7" vacuum gages, complete, each	10.00	11.50	10.00
342,000 lbs. structural steel	.05	.0575	.05
390,000 lbs. metal in lock gates	.07	.0805	.07
73,000 lbs. metal in needle dams	.06	.069	.06
33,000 lbs. metal in lock valves	.12	.138	.12
334,000 lbs. metal reinforcement	.04	.046	.04
51,400 lbs. iron castings, plain	.03½	.04025	.035
17,300 lbs. iron castings, machined	.06	.069	.06
500 sq. yds. wood-block pavement	2.50	2.875	2.50
120 lin. ft. wooden fence	.20	.23	.20
1,070 fender fastenings, each	3.00	3.45	3.00
115 expansion bolts in place, each	.40	.46	.40
1,580 lin. ft. wrought-iron pipe railing	1.50	1.725	1.40
440 lin. ft. scroll railing	2.00	2.30	1.90
2 gate hoists, Class "A," each	600.00	690.00	600.00
2 gate hoists, Class "B," each	500.00	575.00	500.00
2 gate hoists, Class "C," each	700.00	805.00	700.00
5 gate hoists, Class "D," each	600.00	690.00	600.00
2 gate hoists, Class "E," each	800.00	920.00	800.00
For removing old bridge superstructures, lump sum	100.00	115.00	100.00
For moving bridge and bulkhead gates, lump sum	1,500.00	1,725.00	1,700.00
For raising buildings, lump sum	800.00	920.00	900.00
For maintaining highway traffic, lump sum	500.00	575.00	500.00
For moving Weighlock House, lump sum	900.00	1,035.00	1,000.00
Deduct price to be paid to the State of New York for buildings in place, which are to be removed without expense to the State, lump sum	100.00	100.00	100.00
Total	$752,760	$865,689	$739,261

*BURLINGTON, VT.—Bids in detail were received as follows by the Filtration Commission, J. W. Goodell, Secy., on July 22, for constructing mechanical filter plant. The work includes a covered reinforced concrete coagulating basin of about 250,000 gallons capacity; four concrete filter tanks, each of a net area of filtering surface of 200 sq. ft.; a clear water basin beneath the filters having capacity of about 100,000 gallons, together with all appurtenances and piping connections to the neighboring water pumping station, low lift centrifugal pumps, wash water pumps, etc. Hering & Fuller, 170 Broadway, New York, are Engrs. The bidders were: (A) LEY CONSTRUCTION CO., 29 Broadway New York (awarded contract); (B) Greer Filter Co., Hartje Bldg., Pittsburg; (C) Norwood Engineering Co., Florence, Mass.; (D) N. Y. Continental-Jewel Filtration Co., 15 Broad St., New York; (E) Union Filter Co., Pittsburg:

	(A)	(B)	(C)	(D)	(E)
450 cu. yds. earth excavation	$0.60	$0.50	$0.60	$0.60	$0.55
3,000 ft. B. M. sheet piling	75.00	65.00	75.00	75.00	80.00
500 lin. ft. round piles	.40	.40	.40	.40	2.60
825 cu. yds. concrete	9.80	12.45	10.50	10.00	11.00
65,000 lbs. steel rods	.05	.0395	.035	.035	.027
Filterhouse with appurtenances, complete, lump sum	6,750.00	7,145.00	8,450.00	7,500.00	13,000.00
Pipes, specials, gates, meter, drains, and appurtenances, lump sum	6,600.00	5,300.00	6,300.00	10,451.60	6,325.00
Loss of head gages, depth recorder and rate controllers, lump sum	2,650.00	2,700.00	1,770.00	1,922.00	2,080.00
Piping and gutters within filter tanks, lump sum	1,400.00	1,675.00	1,950.00	1,575.00	1,430.00
Filter gravel, lump sum	325.00	400.00	580.00	745.00	196.00
Filter sand, lump sum	544.00	525.00	665.00	745.00	225.00
Coagulating devices, complete, lump sum	1,350.00	1,800.00	1,625.00	1,950.00	850.00
Embankment, lump sum	280.00	225.00	200.00	300.00	247.50
Steam operated centrifugal pumps and blower with engines, complete, lump sum	5,180.00	5,200.00	7,100.00	3,780.00	5,800.00
Electrically operated centrifugal pumps and blower with motors, complete, lump sum	4,800.00	4,800.00	5,600.00	3,460.00	6,500.00
Total with steam operated machinery	$37,109	$38,429	$40,272	$40,189	$42,771
Total with electrically operated machinery	*$36,729	$38,029	$38,772	$39,869	$43,471

*Bid accepted.

*RETAINING WALL.—New York, N. Y.—Bids were received, as follows, on July 30 by George Cromwell, Pres. Boro. of Richmond, for constructing reinforced concrete retaining walls on Jay St. and South St., and other work in connection with the St. George Ferry approach, Boro. Richmond: (A) Phoenix Construction Co., 41 Park Row; (B) Turner Construction Co., 11 Broadway; (C) H. Branchard; (D) A. Engeman; (E) Williams Engineering & Contracting Co., 13 Park Row; (F) Jenko-Asserson Construction Co., 59 Pearl St.:

	(A)	(B)	(C)	(D)	(E)	(F)
9,400 cu. yds. concrete in place	$23.07	$17.50	$24.50	$12.50	$9.08	$22.03
1,100,000 lbs. steel in place	2.69	.04½	.04	.04½	.11	.069
23,000 cu. yds. of excavation	3.52	4.57	4.00	3.00	3.30	2.48
100 cu. yds. broken stone, for foundation	1.50	7.00	5.25	3.00	2.50	2.88
2,500 lin. ft. granite coping on parapet wall	6.15	3.68	3.85	4.00	5.50	4.03
30 lin. ft. special granite coping, Class A	3.90	3.08	4.00	5.20	6.00	4.15
20 lin. ft. special granite coping, Class B	5.20	5.00	5.20	6.00	6.00	5.44
20 lin. ft. special granite coping, Class C	3.90	3.30	3.25	4.00	6.00	3.38
4,950 sq. ft. of granite facing	2.60	1.66	1.75	1.60	3.00	1.82
100 cu. yds. extra concrete foundation	7.50	7.00	15.00	10.00	8.00	22.03
40,000 lin. ft. of piles, furnished, driven and cut	.33	.40	.40	.55	.66	.29
16 lin. ft. gran. pedestals, Type A.	65.00	37.65	39.50	.75	40.00	41.28
3 lin. ft. gran. pedestals, Type B.	65.00	37.65	39.50	42.00	40.00	41.28
1 lin. ft. gran. pedestals, Type C.	286.00	124.70	130.50	131.00	60.00	136.57
1 lin. ft. gran. pedestals, Type D.	65.00	44.10	46.00	42.00	60.00	48.30
1 lin. ft. gran. pedestals, Type F.	1.09	58.30	61.20	42.00	108.00	62.90
1 lin. ft. gran. pedestals, Type G.	1.09	57.75	61.00	72.00	96.00	63.25
Totals	$372,696	$280,513	$403,551	$279,269	$339,806	$374,524

*SEWERS.—Baltimore, Md.—Itemized bids received by the Sewerage Commission on April 10 for outfall sewer, Sections 3 to 10, high level interceptor, etc., are now published for the first time. The bidders were: (A) J. CONNELLY CONSTRUCTION CO., Cleveland, Ohio (awarded contracts 3, 7, and 8); (B) David Peoples, Philadelphia; (C) Coleman Bros., Boston; (D) P. Flanigan & Son, Baltimore; (E) New York Continental Jewell Filtration Co., 15 Broad St., New York; (F) A. F. HELM, Cleveland, Ohio (awarded contract 9); (G) J. ERWIN HILLPOT, Philadelphia (awarded contract 10); (H) Janon Fisher, Ruxton, Md.; (I) Metropolitan Contracting Co., Boston; (J) James F. McCabe Co., Baltimore; (K) McLean Contracting Co., Baltimore. Calvin W. Hendrick, Ch. Engr., Sewerage Commission:

Outfall sewer, Section 3:	(A)	(I)	(E)	(B)
2,981.29 lin. ft. excavation and refill in trench or tunnel	$15.50	$21.00	$23.00	$18.00
100 cu. yds. extra material for embankment	1.00	.05	1.00	1.50
18,000 cu. yds. embankment	.10	.06	.28	.15
25 cu. yds. extra excavation for wider or deeper trench	2.00	1.50	2.25	3.00
25 cu. yds. gravel refill below sub-grade	2.50	1.50	2.50	2.50
250 cu. yds. excav. for drainage ditches, etc.	1.50	.75	2.00	.50
800 cu. yds. ordinary brick masonry	15.00	16.00	15.00	14.00
25 cu. yds. vitrified brick masonry	23.00	21.00	20.00	23.00
3,500 cu. yds. "Class A" concrete masonry	7.50	8.35	8.75	11.50
3,300 cu. yds. "Class B" concrete masonry	7.00	7.75	8.00	10.00
1,000 lbs. corrugated or twisted steel bars	.07	.04	.04	.06
2 cu. yds. dimension-stone masonry	20.00	35.00	40.00	20.00
10 cu. yds. rubble masonry	8.00	6.00	5.00	8.00
100 lin. ft. 6" underdrain	.35	.75	.30	.40
1,400 lin. ft. 8" underdrain	.45	.75	.40	.45
1,400 lin. ft. 10" underdrain	.65	.75	.50	.60
200 lin. ft. 12" underdrain	1.50	1.00	.60	.80
40 M. ft. B. M. sheeting left in place	25.00	25.00	27.00	25.00
5 M. ft. B. M. plain sheet-piling left in place				
5 M. ft. B. M. specially formed sheet piling left in place	25.00	25.00	45.00	40.00
10 M. ft. B. M., lumber in foundation	42.00	35.00	52.00	60.00
100 lin. ft. piles in place	40.00	40.00	45.00	45.00
200 sq. yds. slope paving	.75	.25	.70	1.00
7 manhole heads and covers in place	2.00	1.00	2.00	1.00
91 8" galvanized wrought-iron manhole steps	15.00	15.00	15.00	15.00
5 wrought-iron pile-shoes	.50	.30	.30	1.00
2,103 lin. ft. macadam roadway	5.00	4.00	10.00	2.00
Gratings for culvert inlets	7.00	9.00	5.40	6.60
60 lin. ft. 24" drain	....	....	....	....
	6.00	3.00	4.00	2.00
Total amount of bid	$130,054	$155,808	$159,696	$160,106
Number of working days required for completion	400	300	350	300

Outfall sewer, Section 4:	(E)	(B)	(I)	(J)
2,947.26 lin. ft. excavation and refill in trench or tunnel	$23.00	$18.00	$31.00	$34.00
100 cu. yds. extra material for embankment	1.00	1.50	.05	.50
2,600 cu. yds. embankment	.30	.15	.15	.25
25 cu. yds. extra excavation for wider or deeper trench	2.25	2.00	1.50	2.00
25 cu. yds. gravel refill below sub-grade	2.50	2.50	1.50	2.50
100 cu. yds. excav. for drainage ditches, etc.	2.00	.50	.75	2.00
750 cu. yds. ordinary brick masonry	15.00	14.00	16.00	16.00
25 cu. yds. vitrified brick masonry	20.00	23.00	21.00	24.00
6,065 cu. yds. "Class A" concrete masonry	9.00	11.50	8.35	10.50
1,334 cu. yds. "Class B" concrete masonry	8.00	10.00	7.75	10.00
600,000 lbs. corrugated or twisted steel bars	.04	.06	.04	.05
2 cu. yds. dimension-stone masonry	40.00	20.00	35.00	20.00
10 cu. yds. rubble masonry	5.00	8.00	8.00	10.00
100 lin. ft. 6" underdrain	.30	.40	.75	.60
200 lin. ft. 8" underdrain	.40	.45	.75	1.50
800 lin. ft. 10" underdrain	.50	.60	.75	2.00
1,900 lin. ft. 12" underdrain	.60	.90	1.00	2.50
70 M. ft. B. M. sheeting left in place	27.00	25.00	25.00	60.00
5 M. ft. B. M. plain sheet piling left in place	45.00	40.00	25.00	60.00
5 M. ft. B. M. specially formed sheet piling left in place	52.00	60.00	35.00	60.00
10 M. ft. B. M. lumber in foundation	45.00	45.00	40.00	60.00
100 lin. ft. piles in place	.70	1.00	.25	1.00
100 sq. yds. slope paving	2.00	1.00	1.00	5.00
6 manhole heads and covers in place	15.00	15.00	15.00	25.00
78 8" galvanized wrought-iron manhole steps	.30	1.00	.30	1.00
5 wrought-iron pile-shoes	10.00	2.00	4.00	5.00
1 siphon	.....	2,000.00	1,000.00	3,000.00
Total amount of bid	$177,231	$197,907	$190,600	$236,945
Number of working days required for completion	350	300	400	360

*Bids rejected.

Outfall sewer, Section 5:	(B)	(E)	(I)
2,975 lin. ft. excavation and refill in trench or tunnel	$19.05	$26.00	$34.50
100 cu. yds. extra material for embankment	1.50	1.00	.05
5,000 cu. yds. embankment	.15	.30	.10
25 cu. yds. extra excavation for wider or deeper trench	2.00	2.25	2.00
25 cu. yds. gravel refill below sub-grade	2.50	2.50	2.00
100 cu. yds. excav. for drainage ditches, etc.	.50	2.00	.75
775 cu. yds. ordinary brick masonry	14.00	15.00	16.25
25 cu. yds. vitrified brick masonry	23.00	20.00	21.25
3,600 cu. yds. "Class A" concrete masonry	11.50	9.00	8.50
3,500 cu. yds. "Class B" concrete masonry	10.00	8.00	7.80
1,000 lbs. corrugated or twisted steel bars	.06	.04	.04
2 cu. yds. dimension-stone masonry	20.00	40.00	35.00
5 cu. yds. rubble masonry	8.00	5.00	8.00
100 lin. ft. 6" underdrain	.40	.30	.75
300 lin. ft. 8" underdrain	.45	.40	.75
1,500 lin. ft. 10" underdrain	.60	.50	.75
1,000 lin. ft. 12" underdrain	.90	.60	1.00
70 M. ft. B. M. sheeting left in place	25.00	28.00	25.00
5 M. ft. B. M. plain sheet piling left in place	40.00	45.00	25.00
5 M. ft. B. M. specially formed sheet piling left in place	60.00	52.00	35.00
10 M. ft. B. M. lumber in foundation	45.00	45.00	40.00
1,500 lin. ft. piles in place	.80	.70	.25
100 sq. yds. slope paving	1.00	2.00	1.00
6 manhole heads and covers in place	15.00	15.00	15.00
60 8" galvanized wrought-iron manhole steps	.75	.30	.30
25 wrought-iron pile-shoes	2.00	10.00	4.00
1 grating	.....	65.00	15.00
Total amount of bid	$151,876	$158,001	$180,065
Number of working days required for completion	300	400	500

*Bids rejected.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

PIER.—Bayonne, N. J.—F. W. Dalrymple, City Engr., states that plans are now being prepared for a recreation pier for Bayonne.

RETAINING WALL.—Louisville, Ky.—Board of Public Works will receive bids until Aug. 12 for construction of reinforced concrete retaining wall, 122 ft. long, on reinforced concrete piles. J. P. Claybrook is Ch. Engr., Dept. Pub. Wks.

TIRES, STEEL WIRE.—New York, N. Y.—Bids are asked until 10.30 a. m., Aug. 13, by Francis J. Lantry, Fire Comr., for furnishing and delivering new rubber tires and steel wire.

*DREDGING.—Providence, R. I.—Bids are asked until 11 a. m., Sept. 4, by Lieut.-Col. J. H. Willard, Corps Engrs., U. S. A., Newport, R. I., for dredging in Providence Harbor, R. I.

WHARF.—New Orleans, La.—Bids were received on Aug. 3 by Capt. B. T. Clayton, Q. M., New Orleans, for repairing wharf at Jackson Barracks, La. M. P. Doullut was lowest bidder, at $5,320, which was recommended for acceptance.

(Continued on next page.)

CONTRACT PRICES.

*SEWERS.—Baltimore, Md.—(Continued)—

Outfall sewer, Section 6:	(B)	(E)
3,247.86 lin. ft. excavation and refill in trench or tunnel	$14.00	$25.50
100 cu. yds. extra material for embankment	1.50	1.00
7,100 cu. yds. embankment	.15	.30
25 cu. yds. extra excavation for wider or deeper trench	2.50	2.25
25 cu. yds. gravel refill below sub-grade	2.50	2.50
100 cu. yds. excav. for drainage ditches, etc.	.50	2.00
820 cu. yds. ordinary brick masonry	14.00	15.00
25 cu. yds. vitrified brick masonry	23.00	20.00
3,900 cu. yds. "Class A" concrete masonry	11.50	9.00
4,000 cu. yds. "Class B," concrete masonry	10.00	8.10
5000 lbs. corrugated or twisted steel bars	.06	.04
5 cu. yds. dimension-stone masonry	20.00	40.00
10 cu. yds. rubble masonry	8.00	5.00
200 lin ft. 6" underdrain	.40	.30
500 lin. ft. 8" underdrain	.45	.40
500 lin. ft. 10" underdrain	.60	.50
2,000 lin. ft. 12" underdrain	.90	.60
50 M. ft. B. M., sheeting left in place	25.00	29.00
5 M. ft. B. M. plain sheet piling left in place	40.00	45.00
5 M. ft. B. M., specially formed sheet piling left in place	60.00	52.00
10 M. ft. B. M. lumber in foundation	45.00	46.00
200 lin. ft. piles in place	1.00	.70
400 sq. yds. slope paving	1.00	2.00
6 manhole heads and covers in place	15.00	15.00
63 8" galvanized wrought-iron manhole steps	.75	.30
10 wrought-iron pile-shoes	2.00	10.00
420 lin. ft. macadam roadway	2.95	3.50
Total amount of bid	$150,846	$172,843
Number of working days required for completion	300	400

*Bids rejected.

Outfall sewer, Section 7:	(A)	(B)	(D)	(E)	(C)
2,852.14 lin. ft. excavation and refill in trench or tunnel	$14.00	$11.25	$12.20	$23.50	$25.00
100 cu. yds. extra material for embankment	1.00	1.50	1.50	1.00	1.00
15,700 cu. yds. embankment	.10	.10	.50	.30	.20
25 cu. yds. extra excavation for wider or deeper trench	2.00	2.50	2.00	2.25	2.00
25 cu. yds. gravel refill below sub-grade	2.50	2.50	2.50	2.50	2.00
200 cu. yds. excav. for drainage ditches, etc.	1.50	.50	1.00	2.00	1.50
700 cu. yds. ordinary brick masonry	15.00	14.00	15.00	16.00	17.00
25 cu. yds. vitrified brick masonry	23.00	23.00	18.75	22.00	25.00
3,400 cu. yds. "Class A" concrete masonry	7.50	11.50	11.12	9.10	10.00
3,500 cu. yds. "Class B" concrete masonry	7.00	10.00	10.30	8.25	9.00
1,000 lbs. corrugated or twisted steel bars	07	.06	.10	.05	.05
2 cu. yds. dimension-stone masonry	20.00	20.00	21.00	40.00	40.00
10 cu. yds. rubble masonry	8.00	8.00	9.00	5.00	20.00
400 lin. ft. 6" underdrain	.35	.40	.60	.30	.50
1,000 lin. ft. 8" underdrain	.45	.45	.70	.40	.60
1,400 lin. ft. 10" underdrain	.60	.60	.80	.50	.70
100 lin. ft. 12" underdrain	1.50	.90	1.00	.60	.75
20 M. ft. B. M. sheeting left in place.	25.00	25.00	35.00	30.00	20.00
5 M. ft. B. M. plain sheet piling left in place	30.00	40.00	35.00	45.00	50.00
5 M. ft. B. M. specially formed sheet piling left in place	42.00	60.00	55.00	52.00	60.00
10 M. ft. B. M. lumber in foundation.	40.00	45.00	52.50	46.00	50.00
100 lin. ft. piles in place	.75	1.00	.45	.70	.50
100 sq. yds. slope paving	2.50	1.00	.90	2.00	4.00
6 manhole heads and covers in place	15.00	15.00	17.50	18.00	25.00
72 8" galvanized wrought-iron manhole steps	.50	.75	.30	.30	.50
5 wrought-iron pile-shoes	5.00	2.00	2.25	10.00	5.00
2,852.14 lin. ft. macadam roadway	4.50	2.95	4.65	3.50	3.00
Total amount of bid	$120,058	$131,344	$146,721	$158,099	$166,631
No. working days required for completion.	375	300	600	425	350

Outfall sewer, Section 8:	(A)	(B)	(C)	(D)	(E)
2,900 lin. ft. excavation and refill in trench or tunnel, 132 × 147 ins.	$11.00	$9.75	$14.00	$11.73	$20.40
100 cu. yds. extra material for embankment	1.00	1.50	1.00	1.50	1.00
13,000 cu. yds. embankment	.10	.10	.25	.50	.40
25 cu. yds. extra excavation for wider or deeper trench	2.00	2.50	2.00	2.00	2.25
25 cu. yds. gravel refill below subgrade	2.50	2.50	2.00	2.50	2.50
200 cu. yds. excav. for drainage ditches, etc.	1.50	.50	2.00	1.00	2.00
750 cu. yds. ordinary brick masonry	15.00	14.00	17.00	15.75	16.00
25 cu. yds. vitrified brick masonry	23.00	23.00	25.00	19.68	22.00
3,410 cu. yds. "Class A" concrete masonry	7.50	11.50	10.00	11.65	9.10
3,200 cu. yds. "Class B" concrete masonry	7.00	10.00	9.00	10.45	8.10
1,000 lbs. corrugated or twisted bars	.07	.06	.05	.10	.05
2 cu. yds. dimension-stone masonry.	20.00	20.00	40.00	22.00	40.00
10 cu. yds. rubble masonry	8.00	8.00	20.00	9.45	5.00
100 lin. ft. 6" underdrain	.35	.40	.50	.64	.30
200 lin. ft. 8" underdrain	.45	.45	.60	.76	.40
600 lin. ft. 10" underdrain	.60	.60	.70	.90	.50
2,000 lin. ft. 12" underdrain	1.50	.90	.70	1.10	.60
20 M. ft. B. M. sheeting left in place.	25.00	25.00	20.00	35.00	30.00
5 M. ft. B. M. plain sheet-piling left in place	29.00	40.00	50.00	35.00	45.00
5 M. ft. B. M. specially formed sheet piling left in place	42.00	60.00	60.00	55.00	55.00
10 M. ft. B. M. lumber in foundation.	40.00	45.00	50.00	52.50	46.00
100 lin. ft. piles in place	.75	1.00	.50	.45	.70
300 sq. yds. slope paving	2.50	1.00	4.00	.97	2.00
7 manhole heads and covers in place.	15.00	15.00	25.00	17.50	16.00
74 8" galvanized wrought-iron manhole steps	.50	.75	.50	.30	.30
5 wrought-iron pile-shoes	5.00	2.00	5.00	2.25	10.00
2,900 lin. ft. macadam roadway	2.15	2.85	3.00	5.25	3.50
1 grating for culvert inlet	25.00	15.00	50.00	30.00	65.00
200 lin. ft. 30" drain	7.00	4.50	5.00	4.27	5.00
Total amount of bid	$107,094	$125,910	$135,632	$147,921	$149,919
No. of working days required for completion..		300	300	600	450

Outfall sewer, Section 9:	(F)	(A)	(B)	(C)	(D)	(E)
2,671.87 lin. ft. excavation and refill in trench or turned 132 × 147 ins.	$3.28	$9.00	$7.55	$11.00	[illegible]	$20.50
100 cu. yds. extra material for embankment	.40	1.00	1.50	1.00	[illegible]	1.00
17,500 cu. yds. embankment	.10	.10	.10	.25	[illegible]	.40
25 cu. yds. extra excavation for wider or deeper trench	.50	2.00	2.50	2.00	[illegible]	2.25
25 cu. yds. gravel refill below subgrade	2.00	2.50	2.50	2.00	[illegible]	2.50
300 cu. yds. excav. for dredging ditches, etc.	.35	1.50	.50	2.00	[illegible]	2.00
700 cu. yds. ordinary brick masonry..	13.60	15.00	14.00	17.00	[illegible]	16.00
25 cu. yds. vitrified brick masonry..	17.24	23.00	23.00	25.00	[illegible]	22.00
3,200 cu. yds. "Class A" concrete masonry	8.42	7.50	11.50	10.00	[illegible]	9.15
3,400 cu. yds. "Class B" concrete masonry	7.60	7.00	10.00	9.00	[illegible]	8.10
1,000 lbs. corrugated or twisted bars	.04	.07	.06	.05	[illegible]	.05
2 cu. yds. dimension-stone masonry.	18.00	20.00	20.00	40.00	[illegible]	40.00
10 cu. yds. rubble masonry	9.00	8.00	8.00	20.00	[illegible]	5.00
200 lin. ft. 6" underdrain	.15	.35	.40	.50	[illegible]	.30
500 lin. ft. 8" underdrain	.20	.45	.45	.60	[illegible]	.40
800 lin. ft. 10" underdrain	.25	.60	.60	.70	[illegible]	.50
1,200 lin. ft. 12" underdrain	.35	1.50	.90	.75	[illegible]	.60
60 M. ft. B. M. sheeting left in place.	20.00	22.00	25.00	20.00	[illegible]	30.00
5 M. ft. B. M. plain sheet-piling left in place	20.00	30.00	40.00	50.00	[illegible]	45.00
5 M. ft. B. M. specially formed sheet-piling left in place	20.00	42.00	60.00	60.00	[illegible]	55.00
10 M. ft. B. M. lumber in foundation	20.00	40.00	45.00	50.00	[illegible]	46.00
100 lin. ft. piles in place	.25	.75	1.00	.50	[illegible]	40.00
300 sq. yds. slope paving	1.25	2.50	1.00	4.00	[illegible]	.50
6 manhole heads and covers in place.	10.50	15.00	15.00	25.00	[illegible]	2.00
64 8" galvanized wrought-iron manhole steps	.35	.50	.75	.50	[illegible]	16.00
5 wrought-iron pile-shoes	2.50	5.00	2.00	5.00	[illegible]	.30
1,810 lin ft. macadam roadway	2.63	3.00	2.80	3.00	[illegible]	10.00
Total amount of bid	$81,230	$96,581	$113,634	$121,018	$140,108	$142,981
No. working days required for completion	180	390	300	300	[illegible]	450

Outfall sewer, Section 10:	(G)	(A)	(H)	(C)	(D)	(E)
2,778.13 lin. ft. excavation and refill in trench or tunnel, 132 × 147 ins...	$3.60	$6.50	$3.99	$5.00	$1.50	$16.50
12,500 cu. yds. extra material for embankment	.35	.75	.42	.50	.60	.50
22,500 cu. yds. embankment	.20	.10	.15	.25	.15	.40
25 cu. yds. extra excavation for wider or deeper trench	1.00	2.00	.75	2.00	2.50	2.25
25 cu. yds. gravel refill below subgrade	2.20	2.50	2.50	2.00	2.50	2.50
100 cu. yds. excav. for drainage ditches, etc.	.30	1.50	1.50	1.50	.50	2.00
750 cu. yds. ordinary brick masonry ..	10.50	15.00	15.00	17.00	14.00	16.00
25 cu. yds. vitrified brick masonry....	16.00	23.00	25.00	25.00	23.00	22.00
3,450 cu. yds. "Class A" concrete masonry	8.10	7.50	10.50	10.00	11.50	9.15
3,600 cu. yds. "Class B" concrete masonry..	7.50	7.00	10.00	9.00	10.00	8.10
20,000 lbs. corrugated or twisted bars....	.06	.055	.04	.05	.06	.05
2 cu. yds. dimension-stone masonry.	9.00	20.00	50.00	40.00	20.00	40.00
10 cu. yds. rubble masonry	5.00	7.00	7.20	20.00	8.00	6.00
300 lin. ft. 6" underdrain	.40	.30	.28	.50	.40	.30
1,500 lin. ft. 8" underdrain	.50	.40	.38	.60	.45	.40
500 lin. ft. 10" underdrain	.60	.50	.49	.70	.60	.60
100 lin. ft. 12" underdrain	.70	1.50	.58	.75	.90	.60
50 M. ft. B. M sheeting left in place.	26.00	20.00	40.00	20.00	25.00	30.00
5 M. ft. B. M. plain sheet-piling left in place	26.00	30.00	40.00	50.00	40.00	45.00
5 M. ft. B. M. specially formed sheet-piling left in place	45.00	42.00	60.00	60.00	60.00	55.00
10 M. ft. B. M. lumber in foundation.	40.00	40.00	40.00	50.00	45.00	46.00
100 lin. ft. piles in place	.60	.65	.50	.50	1.00	.50
100 sq. yds. slope paving	1.20	200	3.00	4.00	1.00	2.00
5 manhole heads and covers in place.	14.00	15.00	25.00	25.00	15.00	16.00
50 8" galvanized wrought iron manhole steps	.40	.50	.45	.50	.75	.30
5 wrought-iron pile-shoes	3.00	5.00	1.50	5.00	2.00	10.00
Total amount of bid	$87,054	$97,295	$109,375	$111,721	$117,829	$139,528
No. working days required for completion	210	360	150	300	300	450

*J. Erwin Hillpot, who was awarded contract Apr. 24, was unable to furnish bond and contract was awarded to the next lowest bidder May 29, J. Connelly Construction Co.

High level interceptor, Contract 2, Section 1: (Bids received on April 10 were rejected on April 24 and new bids received on May 15. Contract was awarded to (AA) M. A. TALBOTT & CO. Baltimore, on May 22.):

	April 10		May 15	
	(B)	(I)	(AA)	(B)
2,535 lin. ft. of excavation and refill in trench or tunnel, 100" dia.	$22.00	$26.25	$17.00	$21.00
25 cu. yds. rock excavation	4.00	8.50	7.00	4.00
100 cu. yds. extra excavation	2.50	1.00	2.50	2.50
100 cu. yds. gravel refill	2.50	2.00	3.00	2.50
450 cu. yds. ordinary brick masonry	16.00	16.00	19.50	16.00
10 cu. yds. vitrified brick masonry	23.00	21.00	22.50	23.00
2,000 cu. yds. "Class A" concrete masonry	12.00	8.50	10.00	10.00
1,700 cu. yds. "Class B" concrete masonry	11.00	7.60	9.00	9.50
50,000 lbs. corrugated or twisted steel bars	.06	.04	.06	.05
2 cu. yds. dimension-stone masonry	20.00	35.00	21.00	20.00
5 cu. yds. rubble masonry	8.00	6.00	8.00	8.00
100 lin. ft. 6" underdrain	.40	.75	.50	.40
2,500 lin. ft. 8" underdrain	.45	.75	.60	.45
100 lin. ft. 10" underdrain	.60	.75	.80	.60
100 lin. ft. 12" underdrain	.90	1.00	1.00	.90
55 6" connections	.60	1.00	2.00	.60
6 8" connections	.70	1.00	2.50	.70
3 10" connections	.80	1.00	3.00	.80
1 12" connection	1.00	2.00	3.50	1.00
1 15" connection	1.50	2.00	4.00	1.50
40 M. ft. B. M. sheeting left in place	25.00	35.00	20.00	25.00
10 M. ft. B. M. plain sheet piling left in place	40.00	.....	37.00	40.00
10 M. ft. B. M. specially formed sheet piling left in place	60.00	.....	54.00	60.00
40 M. ft. B. M. lumber in foundation	45.00	40.00	45.00	45.00
100 lin. ft. piles in place	1.00	.25	.60	1.00
300 sq. yds. water proofing	2.00	1.50	1.00	2.00
7 manhole heads and covers in place	15.00	15.00	18.00	15.00
76 8" galvanized wr'ght-iron manhole steps.	.75	.30	.27	.75
3 15" galvanized wr'ght-iron manhole steps.	1.00	.50	.35	1.00
28 lin. ft. galvanized wrought-iron ladder in manhole, complete	2.00	1.00	1.00	2.00
10 wrought-iron pile shoes	2.00	4.00	.75	2.00
1,800 lin. ft. 6" vitrified pipe house connections.	1.10	4.00	.80	1.00
25 lin. ft. 8" vitrified pipe house connections.	1.20	4.00	1.00	1.20
425 lin. ft. 6" c.-i. pipe house connections	1.25	4.00	1.75	1.25
10 lin. ft. 8" c.-i. pipe house connections	1.80	4.00	2.50	1.80
30 cast-iron bases for 6" stand-pipes	5.00	5.00	10.00	5.00
2 cast-iron bases for 8" stand-pipes	6.50	6.00	12.00	6.50
Total amount of bid	$118,400	$121,554	$99,740	$108,635
Number of working days required for completion.	400	500	400	350

MISCELLANEOUS CONTRACTS.

SUBWAY.—Columbus, Ga.—Construction of subway in East Eleventh St., to cost $50,000, is under consideration. It is proposed that Council, County Commissioners and railroads share cost.

LEVEE.—Vicksburg, Miss.—O. A. GIBSON, DONOVAN & DALEY, Vicksburg, Miss., have contract at 19¾ cts. per cu. yd. to construct 120,000 yds. of levee work at Stack Island, Baleshed, Miss.

BULKHEAD.—Santa Barbara, Cal.—Bids are asked until 10 a. m., Aug. 10, by Alfred Davis, City Clk., for constructing a bulkhead on the East Boulevard, as per two separate plans, one prepared by F. C. Finkle and one by Thos. Nixon.

*LOCK AND DAM.—Vicksburg, Miss.—Bids are asked until noon, Oct. 5, for building Lock and Dam No. 8, in Ouachita River at Franklin Shoals, Ark. Capt. G. M. Hoffman, Corps Engrs., U. S. A.

AUTOMOBILES.—New York, N. Y.—Bids are asked until noon, Aug. 14, by Wm. H. Edwards, Act. Comr. Street Cleaning, for furnishing and delivering three automobile touring cars for five or seven passengers.

DRAIN.—Marion, Ind.—Bids were received as follows on July 26 for construction of the Cart Creek drain in Pleasant Township, 3½ miles of tile work and 1¼ miles of open work: J. E. DROOK, of Mier, Ind., $7,111 (awarded contract); O. J. Simmons, $7,274; National Drain Tile Co., $8,400; Joseph H. Reese, $8,060.

DREDGING, EXCAVATING. — Skagway, Alaska.—Bids were received on July 29 at Room 602, Burk Bldg., Seattle, Wash., for dredging and excavating in the St. Michael Canal, Alaska. Capt. G. B. Pillsbury, Corps Engrs., U. S. A. The North American Dredging Co., San Francisco, Cal., bid $1.45 a cu. yd. Estimated cost, $248,000.

SHELVING.—Washington, D. C.—Elliott Wood, Supt. of the U. S. Capitol Buildings and Grounds, Washington, has awarded to the ART METAL CONSTRUCTION CO., Jamestown, N. Y., contract for the construction of metal shelving in the office of the Clerk of the Supreme Court of the District of Columbia, at $20,400.

(Continued on next page.)

CONTRACT PRICES.

*SEWERS.—Baltimore, Md.—(Continued)—Clearing disposal works site: Bids were received on April 10 as follows: (1) J. Erwin Hillpot, Philadelphia; (2) Janon Fisher, Ruxton, Md.; (3) Allen & Kefauver, Baltimore; (4) Coleman Bros.; (5) Arnold & Welles, Baltimore; (6) Manufacturers' Engineering Co., Baltimore; (7) David Peoples, Philadelphia. Contract was awarded to J. ERWIN HILLPOT, who was unable to furnish bond. Bids were readvertised and new bids were received on June 12, from (AA) LANE BROS. CO. & JONES, Baltimore (awarded contract on June 19); (BB) David Peoples; (CC) M. A. Talbott; (DD) Janon Fisher; (EE) Allen & Kefauver:

	(1)	(2)	(DD)	(3)	(EE)	(4)	(5)	(6)	(7)	(BB)	(AA)	(CC)
40 acres of woodland to be cleared, contractor getting wood	$120.00	$150.00	$140.00	$200.00	$175.00	$400.00	$475.00	$180.00	$120.00	$100.00	$35.00	$150.00
40 acres of woodland to be cleared, city getting wood	300.00	200.00	200.00	250.00	200.00	500.00	525.00	400.00	250.00	300.00	40.00	200.00
80 acres of partially cleared land to be cleared, contractor getting wood	50.00	10.00	15.00	50.00	10.00	50.00	120.00	90.00	100.00	50.00	25.00	50.00
80 acres of partially cleared land to be cleared, city getting wood	150.00	15.00	20.00	75.00	15.00	100.00	130.00	100.00	200.00	50.00	30.00	90.00
428,825 cu. yds. earth excavation	.24	.36	.34	.37	.33	.40	.35	.37	.44	.29	.29	.31
331,150 cu. yds. rolled embankment	.04	.08	.07	.09	.085	.10	.17	.20	.22	.10	.07	.08
2,375 cu. yds. loam	.38	.50	.50	.54	.50	.50	1.50	.90	.75	.50	.33	1.00
2 acres seeding	40.00	50.00	75.00	35.00	35.00	100.00	200.00	50.00	25.00	50.00	50.00	100.00
1,000 sq. yds. sodding	.12	.15	.12	.25	.25	.50	.30	.60	.12	.20	.60	.90
3,000 lin. ft. 6" vitrified underdrains	.40	.28	.50	.25	.25	.50	.30	.75	.28	.40	.25	.50
500 lin. ft. 12" vitrified underdrains	.60	.58	1.00	.50	.50	.75	.35	1.30	.58	1.00	.50	1.00
Total amount of bid (contractor getting wood)	$127,566	$190,236	$179,238	$203,071	$179,967	$228,407	$238,237	$245,033	$277,417	$168,662	$153,423	$174,903
Total amount of bid (city getting wood)	$142,766	$192,636	$182,038	$207,071	$181,367	$236,407	$241,037	$254,633	$290,617	$176,662	$154,023	$180,103
Number of working days required for completion	300	400	390	350	400	400	200	275	300	450	400	400

Contract 3, Section 2: (Bids received on April 10 were rejected. New bids were received on May 15 and contract was awarded to (AA) on May 22.):

	April 10		May 15	
	(B)	(I)	(AA)	(B)
2,665 lin. ft. excavation and refill in trench or tunnel, 100" dia.	$33.00	$51.00	$25.00	$31.00
867 cu. yds. rock excavation	5.00	10.00	6.00	5.00
100 cu. yds. extra excavation	2.50	1.00	3.00	2.50
100 cu. yds. gravel refill	2.50	2.00	2.88	2.50
505 cu. yds. ordinary brick masonry	16.00	16.00	20.80	16.00
10 cu. yds. vitrified brick masonry	23.00	21.00	24.00	23.00
1,650 cu. yds. "Class A" concrete masonry	12.00	8.50	9.50	10.00
1,880 cu. yds. "Class B" concrete masonry	11.50	7.75	8.50	9.50
1,000 lbs. corrugated or twisted bars	.06	.04	.06	.05
2 cu. yds. dimension-stone masonry	20.00	35.00	21.00	20.00
5 cu. yds. rubble masonry	8.00	6.00	8.00	8.00
100 lin. ft. 6" underdrain	.40	.75	.75	.40
2,600 lin. ft. 8" underdrain	.45	.75	.80	.45
100 lin. ft. 10" underdrain	.60	.75	.90	.60
100 lin. ft. 12" underdrain	.90	1.00	1.00	.90
10 6" connections	.80	1.00	2.00	.60
7 8" connections	1.00	1.00	2.50	.70
1 10" connection	1.50	1.00	3.00	.80
1 12" connection	1.50	2.00	3.50	1.00
1 15" connection	1.50	2.00	3.75	1.50
40 M. ft. B. M. sheeting left in place	25.00	35.00	20.00	25.00
10 M. ft. B. M. plain sheet piling left in place	40.00	35.00	37.00	40.00
10 M. ft. B. M. specially formed sheet piling left in place	60.00	35.00	54.00	60.00
40 M. ft. B. M. lumber in foundation	45.00	40.00	45.00	45.00
100 lin. ft. piles in place	1.00	.25	.60	1.00
300 sq. yds. water proofing	2.00	1.50	1.00	2.00
5 manhole heads and covers in place	15.00	15.00	18.00	15.00
60 8" galv. wrought-iron manhole steps	.75	.30	.30	.75
6 15" galv. wrought-iron manhole steps	1.00	.50	.35	1.00
60 lin. ft. galvanized wrought-iron ladder in manhole, complete	2.00	1.00	1.00	2.00
10 wrought-iron pile shoes	2.00	4.00	1.00	2.00
300 lin. ft. 6" vit. pipe house connections	1.10	3.00	.80	1.00
10 lin. ft. 8" vit. pipe house connections	1.25	3.00	1.00	1.25
50 lin. ft. 6" c.-i. pipe house connections	1.70	3.00	2.00	1.90
10 lin. ft. 8" c.-i. pipe house connections	1.80	3.00	2.50	1.80
2 Cast-iron bases for 6" stand-pipes	5.00	5.00	10.00	5.00
2 cast-iron bases for 8" stand-pipes	6.50	5.00	12.00	6.50
Total amount of bid	$149,379	$189,710	$121,903	$136,934
Number of working days required for completion	400	500	400	350

Contract 4, Section 1, low level interceptor:

	(I)	(C)	(K)	(B)
300 lin. ft. excavation and refill for 84" sewer (74")	$74.20	$70.00	$65.00	$140.00
720 lin. ft. excavation and refill for 80" sewer	67.32	65.00	65.00	135.00
647 lin. ft. excavation and refill for 76" sewer	58.00	65.00	65.00	125.00
25 cu. yds. extra excavation	6.75	2.00	7.00	15.00
25 cu. yds. gravel refill	2.50	2.00	3.00	2.00
436 cu. yds. ordinary brick masonry	16.00	17.00	18.00	16.00
10 cu. yds. vitrified brick masonry	21.00	25.00	22.00	25.00
678 cu. yds. "Class A" concrete masonry	8.50	10.00	16.00	14.00
1325 cu. yds. "Class B" concrete masonry	7.60	9.00	16.00	12.00
1,000 lbs. corrugated or twisted steel bars	.04	.05	.05	.06
2 cu. yds. dimension-stone masonry	35.00	40.00	25.00	20.00
10 cu. yds. rubble masonry	10.00	20.00	9.00	8.00
100 lin. ft. 10" underdrain	.75	.70	2.00	1.50
500 lin. ft. 12" underdrain	1.00	.75	2.25	2.00
1,300 lin. ft. 15" underdrain	1.25	1.50	2.50	2.50
500 lin. ft. 18" underdrain	1.50	3.00	3.00	3.50
10 6" connections	1.00	5.00	1.50	.50
5 8" connections	1.00	5.00	2.00	.60
1 10" connection	1.00	5.00	2.50	.70
1 12" connection	1.00	5.00	3.00	.90
1 15" connection	1.50	5.00	3.50	1.50
1 18" connection	2.00	6.00	4.25	2.25
1 20" connection	2.50	7.00	5.25	3.00
1 22" connection	2.50	8.00	6.50	3.50
1 24" connection	2.50	8.00	8.25	4.00
1 27" connection	3.00	8.00	10.25	4.50
1 30" connection	6.00	8.00	13.00	5.00
1 33" connection	10.00	9.00	17.00	6.00
10 M. ft. B. M. sheeting left in place	25.00	20.00	55.00	25.00
5 M. ft. B. M. plain sheet piling left in place	25.00	50.00	55.00	40.00
478 M. ft. B. M. specially formed sheet piling left in place	1.00	60.00	85.00	60.00
55 M. ft. B. M. lumber in foundation	40.00	50.00	85.00	45.00
1,3000 lin. ft. piles in place	.25	.50	.45	1.25
4,230 sq. yds. water proofing	1.50	1.50	2.00	1.00
10 manhole heads and covers in place	15.00	25.00	20.00	15.00
140 8" galv. wrought-iron manhole steps	.30	1.00	.40	.75
100 wrought-iron pile shoes	4.00	5.00	2.00	2.00
2,000 lin. ft. 6" vit. pipe house connections	4.00	3.00	.75	1.50
100 lin. ft. 8" vit. pipe house connections	4.00	5.00	1.00	1.75
400 lin. ft. 6" c.-i. pipe house connections	4.00	6.00	1.50	2.00
20 lin. ft. 8" c.-i. pipe house connections	4.00	7.00	1.75	2.50
80 cast-iron bases for 6" stand-pipes	5.00	7.00	8.00	5.00
2 cast-iron bases for 8" stand-pipes	6.00	8.00	12.00	6.50
Total amount of bid	$158,441	$195,922	$218,879	$316,465
Number of working days required for completion	500	300	450	500

Contract 5, Section 2, low level interceptor:

	(I)	(K)	(B)
1,923 lin. ft. excavation and refill for 84" sewer (74")*	$55.00	$58.00	$125.00
25 cu. yds. extra excavation	6.00	7.00	15.00
25 cu. yds. gravel refill	2.50	3.00	2.00
485 cu. yds. ordinary brick masonry	16.00	18.00	16.00
10 cu. yds. vitrified brick masonry	21.00	22.00	25.00
695 cu. yds. "Class A" concrete masonry	8.50	16.00	14.00
1,405 cu. yds. "Class B" concrete masonry	7.00	16.00	12.00
1,000 lbs. corrugated or twisted steel bars	.04	.05	.06
2 cu. yds. dimension-stone masonry	35.00	25.00	20.00
2 cu. yds. rubble masonry	10.00	9.00	8.00
100 lin. ft. 10" underdrain	.75	2.00	1.50
1,066 lin. ft. 12" underdrain	1.00	2.25	2.00
900 lin. ft. 15" underdrain	1.25	2.50	2.50
5 6" connections	1.00	1.50	.50
5 8" connections	1.00	2.00	.60
2 10" connections	1.00	2.50	.70
4 12" connections	1.00	3.00	.90
1 15" connection	1.50	3.50	1.50
1 18" connection	2.00	4.25	2.25
1 20" connection	2.50	5.25	3.00
1 22" connection	2.50	6.50	3.50
1 24" connection	3.00	8.25	4.00
1 27" connection	3.00	10.25	4.50
10 M. ft. B. M. sheeting left in place	25.00	55.00	25.00
5 M. ft. B. M. plain sheet piling left in place	25.00	55.00	40.00
458 M. ft. B. M. specially formed sheet piling left in place	1.00	85.00	60.00
60 M. ft. B. M. lumber in foundation	40.00	85.00	45.00
12,000 lin. ft. piles in place	.25	.45	1.25
4,634 sq. yds. water proofing	1.50	2.00	1.00
10 manhole heads and covers in place	15.00	20.00	15.00
110 8" galv. wrought-iron manhole steps	.30	.40	.75
100 wrought-iron pile shoes	4.00	2.00	2.50
375 lin. ft. 6" vit. pipe house connections	4.00	.75	1.50
10 lin. ft. 8" vit. pipe house connections	4.00	1.00	1.75
250 lin. ft. 6" c.-i. pipe house connections	4.00	1.50	2.00
10 lin. ft. 8" c.-i. pipe house connections	4.00	1.75	2.50
50 cast-iron bases for 6" stand-pipes	4.00	8.00	5.00
2 cast-iron bases for 8" stand-pipes	4.00	12.00	5.50
Total amount of bid	$149,477	$220,313	$332,070
Number of working days required for completion	600	450	400

MISCELLANEOUS CONTRACTS.

*LOCKS AND DAMS, ETC.—Mobile, Ala.—Bids are asked until 11 a. m., Oct. 5, by Maj. H. Jervey, Corps Engrs., U. S. A., for building locks and dams Nos. 2 and 3, and lock-tender's house, Tombigbee River, Ala.

*PIER, DREDGING, ETC.—Milwaukee, Wis.—Bids are asked by Maj. W. V. Judson, Corps Engrs., U. S. A., until 2 p. m., Sept. 3, for removing old pier, building pile pier, dredging, etc., at Two Rivers Harbor, Wis.

BREAKWATER.—St. Peter's Bay, P. E. I.—Bids are asked by Fred. Gelinas, Secy. Dept. Public Works, Ottawa, Ont., until Aug. 27, for the construction of an extension to the breakwater at St. Peter's Bay, Kings County, P. E. I., according to a plan and specification to be seen at the office of J. B. Hegan, Resident Engr., Charlottetown, P. E. I.

DRYDOCK.—Orange, Tex.—The New Orleans Drydock Co., New Orleans, La., will build a drydock at Orange, requiring about 1,250,000 ft. of lumber, which will be furnished by the LUTCHER & MOORE LUMBER CO., of Orange. After being built, the dock will be towed to New Orleans through various canals, etc., and finally to the sea, it is stated. J. Walter Thompson, Mgr. of the drydock company, will superintend construction.

*RETAINING WALL.—New York, N. Y.—Bids were received on July 30 by George Cromwell, Pres. Boro. of Richmond, for constructing reinforced concrete retaining walls on Jay St. and South St., and other work in connection with the St. George Ferry approach. List of bidders, bids, and itemized prices will be found under Contract Prices in this issue.

SUPPLIES.—Washington, D. C.—Bids are asked by the Bureau of Supplies and Accounts, Navy Dept., until Aug. 20 and Aug. 27 for various supplies, including building material, construction work, electrical supplies, hardware, metals, machine tools, lumber, pipe, fittings, etc. List of schedules, with quantities of each supply, is on file at office of Engineering News, New York.

DRY DOCK.—Bremerton, Wash.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has rejected all bids received July 27 for the construction of a dry dock at the Puget Sound Navy Yard, Bremerton, Wash. The bids were all far in excess of the appropriation, and the Bureau will ask Congress at the next session for a larger appropriation. Noted fully last week.

PARK, ARTIFICIAL LAKE.—Meridian, Miss.—The Meridian Light & Railway Co. has acquired 40 acres on Mt. Barton, one mile from the city limits, which is to be converted into a city park at a cost of approximately $50,000. About 20 acres of the site is to be converted into an artificial lake for bathing and boating. Work on the resort is to be begun soon. A. B. Paterson is Mgr. and Pur. Agt.

RAILWAY PIER.—Norfolk, Va.—The CHARLES McDERMOTT CONSTRUCTION CO., Washington, D. C., has contract for grading work in connection with steel pier of the Virginia Railway, now under construction at Sewell's Point. Contract price, $49,000. The only remaining contract to be let in connection with the big pier is that for the trestle work. This contract, it is expected, will be let shortly.

PIER.—New York, N. Y.—Bids were received on Aug. 6 by J. A. Bensel, Comr. of Docks, for building a new pier at the foot of James Slip, and for preparing for and building a new bulkhead platform easterly from said pier, between James Slip and Oliver St., East River, as follows: Wm. H. Jenks, 59 Pearl St., $40,800; Butler Bros.-Hoff Co., 1170 Broadway, $31,036; Bernard Rolf, 39 Cortland St., $35,333; Phoenix Construction Co., 41 Park Row, $36,479; George B. Spearin, 4 Navy Yard, Brooklyn, $33,683; R. P. & J. H. Staats, $32,900.

JETTIES.—Virginia.—Bids were received by Maj. Spencer Cosby, Corps Engrs., U. S. A., Washington, on July 29 for constructing riprap jetties in Occoquan, Nomini and Urbana Creeks and Milford Haven, Va. Chas. G. Smith & Son, of Washington, D. C., submitted lowest bid as follows: 100 cu. yds. rip-rap stone in Occoquan Creek, Va., $1.97; 1,000 cu. yds. rip-rap stone in Nomini Creek, Va., $3.34; 900 cu. yds. rip-rap stone in Urbana Creek, Va., $3.93, and 400 cu. yds. rip-rap stone in Milford Haven, Va., $4.48; total, $10,048. Lyons Bros., of Brookland, D. C., bid for the work $12,300.

MINE SHAFT, FOUNDATIONS.—Ishpeming, Mich.—The FOUNDATION CO., 115 Broadway, has been awarded the contract for sinking a mine shaft on the Swanzy Range near Ishpeming, Mich. The size of this shaft will be 2 ft. × 17 ft., and will be sunk through about 70 ft. of water-bearing material.

The FOUNDATION CO. has also been awarded contract for the foundations of the new 16-story office building to be erected at 160-162-164 Broadway, New York. This building is for the Lawyers' Title Insurance & Trust Co.

BARGE CANAL.—Albany, N. Y.—Bids were opened by F. C. Stevens, Supt. of Public Works, Albany, on July 31st, for three additional Barge Canal contracts: No. 12, No. 14, and No. 35. The following bids were received: On Contract No. 12: Stewart, Kerbaugh, Shanley & Co., 527 Fifth Ave., New York, $3,391,716.

On Contract No. 14: The Scofield Co., Pennsylvania Bldg., Philadelphia, $3,357,776; Arthur W. Luce, 100 Broadway, New York, $2,935,763; Stewart, Kerbaugh, Shanley & Co., New York, $3,163,137.

On Contract No. 35: Stewart, Kerbaugh, Shanley & Co., New York, $865,689; Gilmour-Horton-Allen Co., Sandy Hill, N. Y., $739,261. For itemized bids and full details see under Contract Prices on page 46 and 47.

BOARDWALK.—Long Beach, L. I., N. Y.—The contract for the construction of the boardwalk at Long Beach has been awarded to F. T. NESBIT & CO., of 116 Nassau St., New York. This boardwalk will cost $750,000, an average of $150,000 a mile, and the plans are such as will make it indestructible. The New York "Times" states that the "walk, which will be supported by concrete piles, will be 5½ miles long, 50 ft. wide, and 10 ft. above the high-water line. There will be a stretch of beach 75 ft. wide between it and the ocean. A concrete plant for making the piles will be established at once near the beach. The piles will be 25 ft. long, 11 × 11 ins. at the top, tapering to 8 × 8 ins. at the lower end. Instead of driving the piles, they will be 'jettied.' Through the center of each pile is a pipe through which water will be forced by the pumps, driving away the sand at the bottom, and gradually sinking the pile into place. The piles will weigh about 1,000 lbs. each, and there will be 1,740 of them."

U. S. POSSESSIONS AND CUBA.

(denotes that this work is advertised in Engineering News.)*

*DREDGING.—Honolulu, Hawaii. — Bids are asked by Capt. C. W. Otwell, Corps Engrs., U. S. A., Honolulu, until noon Sept. 9, for dredging Honolulu Harbor.

ENGINEERING SUPPLIES. — Panama.—Bids are asked until 10.30 a. m., Aug. 14, 1907, by David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for a quantity of engineering supplies, as follows: One track scale, 42-ft., 100-ton; one gasoline motor car; 3 wooden railway water tanks, 50,000 gallons; indicators, float valves, flange tank connections, 3 duplex pumps, two upright boilers, steel, brass, taper springs, drag scrapers, friction wheels for dredge, dipper lips for steam shovels, ore cement; life preservers, rafts and buoys; and miscellaneous smaller supplies.

DUMP CARS.—Panama.—Bids were received as follows, Aug. 2, at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, for dump cars: Class 1, 500 all-metal double dump cars, 12-yd. capacity, for a 5-ft. gage track; degree of curvature, 20 degrees; length of body inside, 19 ft.; width of body inside, 9 ft.; height of body inside, 1 ft. 10½ ins.; height of body above rail, 7 ft. 4 ins.; wheelbase, 16 ft. 9 ins.; truck base, 5 ft. 2 ins. Class 2, 115 contractor's double dump cars, 4 yds. full level, for use on a narrow gage track:

American Car & Foundry Co., 25 Broad St., New York, $1. Class 1, $1,108 each; total, $554,000; commence delivery Jan. 15, complete March 15.

Continental Car & Equipment Co., 17 Battery Place, New York. Class 2, $19,515.50; $169.70 each; complete delivery, Sept 15, 1907.

Hicks Locomotive & Car Works, Chicago, Ill.: On 9-yd. cars, $375 each for 120 second-hand cars.

Kilbourn & Jacobs Mfg. Co., Lincoln St., Columbus, Ohio: Class 1, $2,150 each on 100 12-yd. cars; total, $215,000; delivery Jan. 15 to April 15; alternate proposal, $2,150 each on 50 16-yd. cars; total, $107,500; delivery Jan. 15 to Feb. 15. Class 2, $25,875; total, $225 each; complete delivery, Oct. 1, 1907.

Kilgore, Peteler Co., Minneapolis, Minn.: Class 2, $249 each; total, $28,635; commence delivery 30 days; complete Oct. 1; alternate proposal, $28,175 total; $245 each.

Arthur Koppel Co., Machinery Building, Pittsburg: Class 1, $1,330 each; total, $665,000; commence delivery, Jan. 1, complete Nov. 1, 1908. Class 2, $34,500; $300 each; Dec. 15 to Feb. 1.

William J. Oliver Mfg. Co., Knoxville, Tenn., New Orleans delivery: Class 1, $1,125 each; total, $562,500; delivery Sept. 30 to Nov. 1, 1907. Class 2, $215 each; total, $24,725; Sept 15 to Oct. 1, 1907.

Russell Wheel & Foundry Co., Detroit, Mich.: Class 1, $697,500 total; $1,395 each; Nov. 15 to March 10.

Standard Steel Car Co., Frick Bldg., Pittsburg, Pa.: Class 1, $1,245 each; $622,500; delivery, Dec. 1 to April 1.

Western Wheel Scraper Co., Aurora, Ill.: Class 1, $1,290 each; total, $645,000; delivery, Oct. 1 to March 1; Class 2, $221 each; total, $25,415; complete delivery, Oct. 1.

All deliveries New York unless otherwise specified.

CIVIL SERVICE EXAMINATIONS.

STATIONARY ENGINEER—New York, N. Y.—The following are the first ten on the eligible list for Stationary Engineer, electrical pumping station, established July 30, 1907, by the Municipal Civil Service Commission, New York:

Rogers, Nelson W., 500 South Ninth Ave., Mount Vernon, N. Y. 92.00
Davey, Frank W., 5812 13th Ave., Brooklyn 89.30
Jennings, Jos. A., 343 East 142d St. 87.50
Collins, Harry L., 1012 Faile St., The Bronx 87.20
Clarke, Patrick, 1044 Freeman St., The Bronx 86.00
Dee, Denis J., 786 Bergen St., Brooklyn 86.00
Pircher, Frank S., 339 East 140th St. 85.00
Patterson, Fred. A., Hotel Astor, Times Sq., Engineer's Dept. 84.90
O'Brien, Jos. J., 458 West 166th St. 83.20
O'Keefe, Wm. H., 268 Boulevard, Rockaway Beach, L. I. 81.90
(There are 23 names on this eligible list.)

ASSISTANT ENGINEER—New York, N. Y.—The first ten on the eligible list for Assistant Engineer in Charge of Section, Board of Water Supply, established by the Municipal Civil Service Commission, New York, on July 25, are as follows:

Morrison, Harry J., Room 91, The Florence, Syracuse, N. Y. 89.00
Kastl, Alexander E., 124 Walnut St., Clinton, Mass. 88.60
Burgess, Alfred S., 1822 Anthony Ave. 88.10
Stone, Willard W., 10 East 126th St. 87.80
Lamson, William M., 15 South Oxford St., Brooklyn 87.40
Swindells, J. Springer, Deerpark Ave., Babylon, L. I. 87.40
Durham, Henry W., 404 West 145th St. 87.20
Durden, James, 3 Locust Ave, Troy, N. Y. 86.80
Harris, Frederick W., 547 Garden St., Little Falls, N. Y. 86.30
Saville, Caleb M., 30 Coolidge St., Brookline, Mass. 85.90
(There are 84 names on this eligible list.)

INSPECTORS, ETC.—Albany, N. Y.—The State Civil Service Commission will hold examinations on Aug. 24 for the following positions: Assistant Bacteriologist and Chemist, State Dept. of Health laboratory, Albany, $720 a year; Deputy Factory Inspector, Dept. of Labor, $1,000; Examiner, Insurance Dept., $2,000 to $2,500; Gas Meter Tester, Public Service Comn., $3 a day; Inspector of Electric Meters, Public Service Comns., Inspector of Tunnels, Dept. of Labor, $1,500; Marine Engineer, $70 to $75 a month and maintenance. Examinations for draftsmen, engineers, etc., will be held at the same date, as advertised in Engineeering News on Aug. 1 and Aug. 8. Charles S. Fowler, Ch. Examiner. The commission has been unable to secure sufficient eligibles for Assistant Civil Engineer, Bridge Designer, Bridge Draftsman, Civil Engineering Draftsman, etc., and qualified applicants for these positions have excellent chances of appointment. The last day for filing applications for all the positions named above is Aug. 17th.

MARINE STEAM ENGINEER — Angel Island, Cal.—The U. S. Civil Service Commission will hold an examination on Aug. 22, to secure eligibles to fill a vacancy in the position of Marine Engineer, at $720 a year and rations, in the Quartermaster's Department-at-Large, Fort McDowell, Angel Island, Cal., Launch Captain Smeads, and vacancies as they may occur in any branch of the service requiring similar qualifications. Attention is invited to the fact that applications for the position of marine engineer may be filed at any time, but only those filed prior to the hour of closing business on Aug. 22, with the Civil Service Commission, Washington, D. C., in complete form, will be considered for the specific vacancy mentioned. Age limit, 20 years. Application Form 1093.

For other Proposal Advertisements see pages 55, 56, 57, 58, of Advertisements and Construction News page 50.

MACADAM ROAD.

Etna, Bergen Co., N. J.

Sealed proposals to build a macadam road in Etna Borough, Bergen County, N. J., known as the Kinderkamack Road, beginning at the Westwood Borough Line and extending to the Delford Borough Line, a distance of six thousand one hundred thirty-two and eighth-tenths (6,132.8) feet, will be received by the Mayor and Council of the Borough of Etna, Bergen County, N. J., at Haring's Hotel, Etna, N. J., on the 23d day of August, 1907, at 8.15 P. M. of said day, and then and there publicly opened. Specifications and plans regarding said construction may be seen and blank proposals obtained by applying to H. G. Hering, Jr., Borough Engineer, Hillsdale, N. J., or at the office of the Borough Clerk, Etna, N. J., or at the office of the State Commissioner of Public Roads, Trenton, N. J.

Each bidder must accompany his bid with a certified check for One Thousand ($1,000.00) Dollars, payable to the order of the Mayor of the Borough, as a guarantee, if said work is awarded to him, he will enter into a contract with the said Mayor and Council, for the due and faithful performance of the same, which contract must be executed together with the bond of the successful bidder within the term of ten (10) days from the time of awarding the contract in the penal sum of at least the estimated cost of the work, with two or more freeholders, or a good or sufficient surety or trust company; all to be first approved by the Mayor and State Commissioner of Public Roads, and conditioned for the faithful performance of the work in strict conformity with the plans and specifications.

The Mayor and Council reserves the right to reject any or all bids.

CHAS. J. MILLER,
Mayor.

JAMES G. HOPPER,
Borough Clerk.

Dated: Aug. 2, 1907. 6-3t

Department of Public Works,
Bureau of Filtration,
Office, 710 City Hall,
Philadelphia, August 5, 1907.

Sealed proposals, endorsed "Bids for the Improvement, Extension and Filtration of the Water Supply," and addresed to the undersigned, at the office above mentioned, will be received until 12 o'clock noon, on August 29th, 1907, for

Contract No. 110—Electric Machinery for Torresdale Pumping Station.

Contract No. 119—Sand Washer Pumps for Torresdale Filter Plant.

Specifications, drawings and blank forms upon which bids must be made can be obtained from the Chief Engineer of the Bureau of Filtration, Room 712, City Hall, to whom all communications should be addressed.

No bid will be considered unless accompanied by a certficate from the City Solicitor that the provisions of an ordinance requiring proposal bonds when the bids exceed in amount five hundred dollars, approved May 25, 1860 (p. 81, West), have been complied with.

The Director reserves to himself the right to reject any or all bids, as he may deem best for the interests of the city.

GEORGE R. STEARNS,
6-2t Director.

REINFORCED CONCRETE CONDUIT FOR WATER SUPPLY.

MONTREAL WATER WORKS.
PROPOSALS

SEALED PROPOSALS will be received by the City Clerk of the City of Montreal, until 12 o'clock noon Friday, September 6th, 1907, for the construction of a reinforced concrete conduit, about 9 feet in diameter and 27,300 feet long.

The work to be done in trench excavation comprises about 250,000 cu. yds. of earth excavation, and about 44,000 cubic yards of rock excavation, besides the furnishing and construction of the reinforced concrete, with molds, metal for reinforcing, etc., all according to plans and specifications to be seen at, or obtained from, the Office of the Superintendent of Water Works, Montreal.

Proposals must be made out on blank forms furnished at said office, and be addressed to the City Clerk, endorsed "PROPOSALS FOR REINFORCED CONCRETE CONDUIT FOR WATER SUPPLY," and be accompanied by a certificate of deposit, with the City Treasurer of Montreal, of the sum of fifty thousand dollars, by certified cheque on a duly authorized bank, doing business in the City of Montreal.

Proposals will be opened and considered by the Water Committee of the City of Montreal, at its next meeting after their reception.

The Water Committee does not bind itself to accept the lowest or any of the proposals made.

A deposit of five dollars will be required for the safe return of plans and specifications which may have been obtained by unsuccessful tenderers.

GEORGE JANIN,
Superintendent and Chief Engineer,
Montreal Water Works.

City Hall, Montreal, August 5th, 1907. 6-2t

PROPOSALS FOR SEWERS.

The Town Council of the Borough of Baden, Beaver County, Pa., will receive proposals until Monday, August 26, 1907, at 8 o'clock P. M. for the construction of a system of Sanitary Sewers, in said Borough. Plans and specifications may be seen at the office of J. P. Leaf, Borough Engineer, Rochester, Pa.

The Council reserves the right to reject any or all bids.

A certified check for $200.00 must accompany each bid.

Proposals to be sent to

L. F. NORTHROP,
Secretary of Council,
Baden, Pa.

August 5, 1907. 6-2t

SEWER.

Office of the Commissioners of Sewerage of Louisville, Ky.

Sealed proposals for the construction of the first sewer under the recent $4,000,000 bond issue, known as the Happy Hollow Sewer, Contract No. 1, of the Comprehensive System of Sewerage for the City of Louisville, Kentucky, will be received at the office of the Commissioners of Sewerage until 12 o'clock noon, August 28th, 1907.

This work consists mainly of the construction of a sewer 7 ft. 4 in. by 8 ft. 6 in. about 3,400 feet long and a branch sewer 4 ft. 8 in. by 5 ft. 6 in. about 119 ft. long.

The principal items in the Engineer's estimate of the work are approximately as follows:

Excavation in shallow cut ..... 5,000 cu. yds.
Concrete ..... 2,000 cu. yds.
Reinforcing steel bars ..... 72,000 lbs.
Portland cement ..... 300 bbls.

Plans and specifications may be seen at the office of the Commissioners, at the office of this paper and at the office of the Consulting Engineer, Harrison P. Eddy, of Metcalf & Eddy, 14 Beacon St., Boston, Mass.

Sealed bids should be endorsed "Proposal for the Happy Hollow Sewer," and addressed to the Commissioners of Sewerage, 505 Equitable Bldg., Louisville, Ky. Each bid shall be accompanied by a certified check in the sum of $1,500 as a guarantee of good faith.

P. L. ATHERTON,
Chairman.
CHAS. P. WEAVER, Secy. and Treas.
J. B. F. BREED, Chief Engineer. 6-2t

SITUATIONS OPEN

WANTED.—Civil Engineer as assistant to consulting municipal engineer in the South. Must be competent to lay out pumping plants, good draftsman. Write, giving age, experience in detail, salary, references. Address "F. A. 6," Engineering News, New York. 6-2t

WANTED—A draftsman of general experience on construction details, with particular reference to shop buildings, for service at the Naval Station, Cavite, P. I. Pay $5.04 per diem. Address with references, BUREAU OF YARDS AND DOCKS, Navy Department, Washington, D. C. 6-2t

WANTED by Structural Steel Company, assistant salesmen in its Boston, New York, Philadelphia, Pittsburg and Chicago Offices. Young men of technical education preferred. Applicants must have had some experience in structural work, also in salesmanship and must have local acquaintance with architects, engineers, builders and fabricating companies. Address giving full particulars and references, "G. A. 6," Engineering News, New York. 6-2t

Miscellaneous Wants

WANTED.—A 20 or 22-in. engineer's Gurley level, new and in good condition, at low figure. State full particulars. Address "E. A. 6," Engineering News, New York. 6-1t

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WANTED TO RENT OR BUY A

Steam Sand Pump Plant

in good repair, ready for operation. PROPERTY DEVELOPMENT CO., 140 Broadway, New York City. 6-1t

FOR SALE

1—125 H. P. Westinghouse Gas Engine, 3 cyl., 13 × 14 inches, in first-class operative condition. Can give immediate delivery; used less than three months. Reason for selling, need larger auxiliary to water plant.

MIDDLEBURY ELECTRIC CO.,
Middlebury, Vt. 6-3t

PATENTS FOR SALE

PNEUMATIC HAMMER. Contains very important improvements over all competing types. Efficiency up to 70 per cent. Most accurate valve action. Over 1000 of these hammers have been manufactured.

DROP HAMMER LIFT for steam or compressed air has been applied to rams up to 5700 lbs. weight. Indispensable in every drop forging shop.

6-3t BECHE & GROSS, Hückeswagen, Germany.

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